

YS24 Compact Super-High-Speed Modular

 Detailed News Release

72,000CPH

(0.05sec/CHIP)

Excellent mounting capability

Newly developed
"Dual Stage Conveyor"



34 kCPH/m²

Area-productivity, No.1* in the world!

*May 2009.YAMAHA MOTOR Investigation

L700×W460mm

Super large PCB
applicable



120 Max feeder capacity

0402~□32mm

Components applicable

- Built-in tape cutter
- CE marking



Specifications

Model Name	YS24
Applicable PCB	L50 ~W50mm - L700 ~W460mm
Mounting Capability	72,000CPH (0.05 sec./CHIP: Optimum conditions established by Yamaha Motor)
Mounting Accuracy	$\pm 0.05\text{mm}$ ($\mu + 3\sigma$), $\pm 0.03\text{mm}$ (3σ)
Applicable Components	0402 - □32mm MAX (Height 6.5mm or less)
Component Types	120 types (Max./8mm wide tape reel conversion)
Power Supply	Three phase AC 200/208/220/240/380/400/416 V $\pm 10\%$
Air Supply Source	0.45MPa
External Dimensions	L1,254 ~W1,687 ~H1,445mm (Excluding protrusions)
Weight	Approx. 1,700kg

YS12P Compact Economy Modular

High-speed mounting capacity
handling
24,000CPH (0.15sec/CHIP equivalent).

High flexibility for components:
0402 to □32mm components, the height
up to 6.5mm.

Applicable to large size PCB,
L510 ~W460mm.

Handles tray package components
by Manual Tray Feeder (MTF).

Built-in Tape cutter.

CE marking.



Specifications

Model	YS12P (Model : KKD-000)
Applicable PCB	L510mm ~W460mm to L50mm ~W50mm
Mounting accuracy	Absolute accuracy ($\mu + 3\sigma$) +/-0.05mm/CHIP
Mounting tact	24,000CPH (under our optimum condition)
Component supply	Tape reel, tray
Number of component types	Tape package components: 59 types (Max/8mm tape reel conversion) Tray package conversion: 2 types (Max/JEDEC tray conversion)
Applicable components	0402 to □32mm MAX, including ball type electrode components
Applicable height	6.5mm
Power supply	3-Phase AC 200/208/220/240/380/400/416 V }10%
Air supply source	0.45MPa
External dimension	L1,254 ~W1,440 ~H1,450mm (not include the projection)
Weight	Approx. 1,250kg

YS12F Compact Economy Flexible Modular

Handling capacity for mounting
20,000CPH (equivalent to 0.18sec/CHIP).

High flexibility for components:
0402 to □45*mm components, the
height up to 15*mm, including ball type
electrode components.

*□32 to □45 is conditional

*Correspondence since Jan., 2010

Applicable to large size PCB,
L510 ~W460mm

Handles various kinds of tray
package components by Automatic Tray
Feeder (ATS15).

Built-in Tape cutter.

CE marking.



Specifications

Model	YS12F (Model : KKJ-000)
Applicable PCB	L510mm ~W460mm to L50mm ~W50mm
Mounting accuracy	Absolute accuracy ($\mu + 3\sigma$) +/-0.05mm/CHIP
Mounting tact	20,000CPH (under our optimum condition)
Component supply	Tape reel, tray
Number of component types	Tape package components: 47 types (Max/8mm tape reel conversion) Tray package conversion: 15 types (Max/JEDEC tray conversion)
Applicable components	0402 to □45*mm MAX, including ball type electrode components *□32 to *□45 is conditional *Correspondence since Jan., 2010
Applicable height	15*mm *Correspondence since Jan., 2010
Power supply	3-Phase AC 200/208/220/240/380/400/416 V }10%
Air supply source	0.45MPa
External dimension	L1,254 ~W1,755 ~H1,450mm (when ATS15 mounted; not include the projection)
Weight	Approx. 1,370kg (when ATS15 mounted)

YS100

High-Speed General-purpose Modular

High-speed mounting
capacity handling
25,000CPH(0.14sec/CHIP
Equivalent : optimum condition).

+/-50 μ m(CHIP),
+/-30 μ m(QFP)mounting absolute
accuracy in full time operation.

Handles a wide range of
components from 0402 chips to \square
45mm components and with long
connectors.

Capable of handling 15mm
height components.

Applicable to large size
PCB(L510mm x W460mm).

Built-in tape cutter available
as an option.

Conformity with both
Machinery directive and EMC
directive (CE marking).



Specifications

Model	YS100(Model : KJJ-000)
Applicable PCB	L510×W460mm to L50×W50mm <Note 1><Note 2>
Through-put (Optimum)	25,000CPH (0.14sec/CHIP Equivalent)
Mounting accuracy (Yamaha's standard components)	Absolute accuracy ($\mu + 3\sigma$) : +/-0.05mm/CHIP, +/-0.05mm/QFP Repeatability (3σ) : +/-0.03mm/CHIP, +/-0.03mm/QFP
Applicable components	0402(Metric base to \square 45mm components, SOP/SOJ, QFP,connector, PLCC, CSP/BGA long connector(W45mm or less) <Note 3><Note 4> Height of components which can be mounted : 15mm or less<Note 5>
Number of component types	96 types(Max, 8mm tape reel conversion)<Note 1>
Power supply	3-Phase AC 200/208/220/240/380/400/416V +/-10% 50/60Hz
Air supply source	0.45MPa or more, in clean, dry states
External dimension<Note	L1,665×W1,562(End of cover)×H1,445mm(cover top)

6>	L1,665×W1,615(End of guide for feeder carriage)×H1,445m(cover top)
Weight	Approx. 1,630kg(Main unit only)

<Note 1>It is varied by the combination layout together with sATS / dYTF etc.

<Note 2>For information on "2 stages push-up spec.", please consult us separately.

<Note 3>In case of FNC head type, the applicable components range is □31mm or less Components.

<Note 4>When handling long connectors and large sized components, about the eccentric offset values and the rotation angle, please consult us separately.

<Note 5>4mm or less height of upper face of PCB before transport is required for the FNC head type.

<Note 6>This dimension does not include the projection.

YS88 Multi-Functional Wide-range modular

Handles a super-wide range of components from 0402 chips to □55mm components and with long connectors.

Handles components with heights up to 25.5mm.

Simplified pressing force control from 10 to 30N.

+/-30µm QFP mounting absolute accuracy and +/-20µm QFP repeatability in full time operation.

8,400CPH(0.43sec/CHIP Equivalent : optimum condition)mounting capacity.

Applicable to large size PCB(L510mm × W460mm).

Built-in tape cutter available as an option.

Conformity with both Machinery directive and EMC directive (CE marking).



Specifications

Model	YS88 (Model : KJH-000)
Applicable PCB	L510×W440mm to L50×W50mm <Note 1><Note 2>
Through-put (Optimum)	8,400CPH (0.43sec/CHIP Equivalent)
Mounting accuracy	Absolute accuracy (μ +3 σ): +/-0.05mm /CHIP, +/-0.03mm

(Yamaha's standard components)	/QFP Repeatability(3 σ): +/-0.03mm /CHIP, +/-0.02mm /QFP
Applicable components	0402 (Metric base)to □55mm components, SOP/SOJ、QFP connector, PLCC,CSP/BGA, long connector(W45mm or less)<Note 3><Note 4> Odd-shaped components(such as special connectors)which requires pressing force control mounting(10 to 30N)
	Height of components which can be mounted : 25.5mm or less<Note 5> Allowable height on PCB surface before transport : 6.5mm or less
Number of component types	90types(Max,8mm tape reel conversion)<Note 1>
Power supply	3-Phase AC 200/208/220/240/380/400/416V +/-10% 50/60Hz
Air supply source	0.45MPa or more, in clean, dry states
External dimension<Note 6>	L1,665xW1,562(End of cover)xH1,445mm(cover top) L1,665xW1,615(End of guide for feeder carriage)xH1,445mm(cover top)
Weight	Approx. 1,650kg(Main unit only)

<Note 1>It is varied by the combination layout together with sATS / dYTF etc.

<Note 2>For information on "2 stages push-up spec.", please consult us separately.

<Note 3>A preliminary arrangement is necessary when a side-view camera is installed.

<Note 4>When handling long connectors and large sized components, about the eccentric offset values and the rotation angle, please consult us separately.

<Note 5>22.5mm or less when the side-view camera is installed.

<Note 6>This dimension does not include the projection.

YS12

Compact High-Speed Modular

Making the most of limited foot-print!

This compact platform design (front view breadth 1,254mm) assure flexible line arrangement in your site.

Both new designed 10 inline multi-heads and new recognition system ensure 36,000CPH(0.1sec/CHIP Equivalent : optimum condition).

Maximum feeder capacity 120 lanes.

Applicable to large size



PCB(L510mm×W460mm).

Built-in tape cutter available as an option.

Conformity with both Machinery directive and EMC directive (CE marking).

Specifications

Model	YS12 (Model : KHY-000)
Applicable PCB	L510 ~W460mm to L50 ~W50mm
Through-put (Optimum)	36,000CPH (0.1sec/CHIP Equivalent)
Mounting accuracy (Yamaha's standard components)	Absolute accuracy ($\mu+3\sigma$) : +/-0.05mm/CHIP Repeatability (3σ) : +/-0.03mm/CHIP
Applicable components	0402(Metric base) to $\square 32^*$ mm components <Note 1> *Correspondence since Jan., 2010
Number of component types	120 types(Max, 8mm tape reel conversion)
Power supply	3-Phase AC 200/208/220/240/380/400/416V +/-10% 50/60Hz
Air supply source	0.45MPa or more, in clean, dry states
External dimension <Note 2>	L1,254 ~W1,440 ~H1,450mm (cover top) L1,464 (End of extension conveyor) ~W1,542 (End of guide for feeder carriage) ~H1,450mm (cover top)
Weight	Approx. 1,340kg

<Note 1> Except ball type electrode components.

<Note 2> This dimension does not include the projection.