









PROSEM

PROSEM is an acronym for Professional Solutions for Electronic Manufacturing. Since starting business in 2002, PROSEM has been a One-Stop fully integrated supplier of world class Equipment and Services for the Electronic Manufacturing Industry in the Indian subcontinent.

Our Head Office in New Delhi, caters to the customers in the North and East of India, and regional offices in Mumbai, Pune and Chennai cater to the customers in West and South of India.

PROSEM is the Exclusive Representative of Kulicke & Soffa (erstwhile Assembléon) make SMT Pick & Place Machines in India. PROSEM also represents Faroad, HCT amongst other brands, covering an entire range of Pick & Place equipment, Printers, Reflow Ovens, Process Equipment, AOIs, SPIs, Board Handling Equipment, etc.

OUR MISSION

To enable our Customers to be more cost efficient and competitive in accordance with their long term business objectives and their competitive scenario.

BUSINESS AREAS

Sale & Service of equipment used for manufacturing of Electronic PCB Assemblies.

Process Quality Support, Project Consultancy and Process Optimization Services.

Software Development and Software Programming Support to OEMs.









Single Placement Head

Dual Lane System





Intelligent Feeders

High Accuracy Head





Placement Quality

Real-Time Placement Force Control Up to 51
Kcph

Practical Output of T4* Dual Lane

Fully Controlled Pick & Place Process

Up to 162

Part Numbers Handling (8mm)

Bare Die Handling Capability $\pm 25 \mu m$

High Placement Accuracy (H1)

Repairable Toolbits



Up to 40N





Specifications

Parameter	T4 T2	H1
IPC9850/9850A Output	51KCPH 24.3KCPH	7.1KCPH
Accuracy @ Cpk>1	40μm for passive	es, 25µm for ICs
Min. Component Size	0.4x0.2mm (01005)	0.6x0.3mm(0201)
Max. Component Size	45 x 45mm	120 x 52mm
Max. Component Height	15mm	25mm
Placement Force	1.5-8N	4.0-60N
Max. PCB Size	555 x 558mm – Single Lane ; 555 x 254mm – Dual Lane	
Feeding Positions (8mm)	162 (Twin Tape)	
Footprint (L x W)	1,170 x 1,855mm	

Features

rarameter
Less Than 1 DPM Placement Quality — Best In The Industry
Lightweight Graphite Axes for High Accuracy at High Speeds
High Feeder Count for Common Setups, Minimizing Changeovers
Continuous Monitoring of Component – Pick Up to Placement
Different Modes of Production (Dual Lane) for Wide Applications
Control Complete Line from Single Master Module
01005 and Bare Die Handling Capability on Standard Machine
Patented Real Time Placement Force Control
PTH, Press Fit Connectors & 50mm Height Capability (H1)

^{*} Real Placement Outputs can be simulated based on customer's products with ±5% accuracy







Single Placement Head



Intelligent Feeders





FACTS



Placement Quality Up to 130 Kcph

Practical Output

Up to 260

Part Numbers Handling (8mm) ±35µm

High Placement Accuracy @ 3σ

Bare Die Handling Only TRUE
Capability Scalable Platform

Real-Time Placement Force Control

Fully Controlled Pick & Place Process





1.5-8N

Features

Parameter
Less Than 1 DPM Placement Quality — Best In The Industry
Best Output Over All Applications (Approx. 6,500CPH Per Robot)*
High Feeder Count for Common Setups, Minimizing Changeovers
Continuous Monitoring of Component – Pick Up to Placement
Scale Up or Scale Down Production Volumes in Minutes
No Line Layout Change for Adding/Removing Robots
0201m and Bare Die Handling Capability on Standard Machine
Patented Real Time Placement Force Control
Lowest Energy Consumption

Parameter	iX-302	iX-502
Rated Speed	8,250CPH	per Robot
Accuracy @ Cpk>1	35μm for Passiv	res, 25µm for ICs
Component Size	0.25x0.125mm (0	201m) ~ 45x45mm
Max. Component Height	10.5mm (Optional 12mm)	
Placement Force	Programmable	from 1.5 to 8N
Max. PCB Size	475 x 390mm	515 x 390mm
Max. Optional PCB Size	1,50	0mm
Feeding Positions (8mm)	156 (Twin Tape)	260 (Twin Tape)
Footprint (L x W)	2,760 x 1,705mm	3,720 x 1,705mm

 $^{^{*}}$ Real Placement Outputs can be simulated based on customer's products with $\pm 5\%$ accuracy

FAR©AD CPM-II (T)

HIGHLY FLEXIBLE MID VOLUME SMT & LENS MOUNTER





FACTS

32Kcph 26Kcph

Rated Speed/ IPC9850 Speed

> Placement Accuracy

 $\pm 40 \mu \text{m}$

84

Electronic Feeder Positions

No tape mess with Tape Cutter

0

0201~ 36mm²

Large Component Range

Large Size PCB Handling

1.2m

1 ST in its class

Linear Motors

Lowest Cost of Ownership

<\$50K

Features

Parameter	Details
Vision Parameters	Body Size Lead/Ball Qty. Lead/Ball Size/Diameter Lead/Ball Pitch etc.
Alignment Type	Vision Alignment by using high speed Line-Scanning Camera
Accuracy Management	Automatic On-Line Calibration
Motion System	SANMOTION TM Linear Motors from SANYO DENKI, Japan
LENS Feeding	LED Lens Feeding (CPM-II T)
Feeding Options	Tape, Stick, Tray, Lens Bowl Feeder
Nozzle Change	Automatic Nozzle Changer

Parameter	CPM-II	CPM-IIT
Placement Speed Optimum IPC 9850	32,000 CPH 26,000 CPH	26,000 CPH 21,000 CPH
Feeder Positions	42 (Front, Std.) 42 (Rear, Opt.)	16 (Front, Std.) 42 (Rear, Opt.)
Placement Accuracy	±4	0μm
PCB Handling	50x50mm ~ 510x460mm Optional 1,200mm PCB Handling	
Component Handling	0201 ~ 1	00x36mm ²
Feeding Types	Tape, Stick & Tray	
Operating System	Wind	dows 7



FARÇAD CPM-III







Precise Head Design

Linear Maglev Motor





Electronic Feeders

High Speed Linear Camera

FACTS

65Kcph 50Kcph

Rated Speed/ IPC9850 Speed

> Placement Accuracy

 $\pm 40 \mu \text{m}$

152

Electronic Feeder Positions

No tape mess with Tape Cutter

0

0201~ 36mm²

Large Component Range

Large Size PCB Handling

1.2m

1 ST in its class

Linear Motors

Lowest Cost of Ownership

<\$85K

Features

Toutures		opeomeations		
Parameter	Details	Parameter	Value	
Vision Parameters	Body Size Lead/Ball Qty. Lead/Ball Size/Diameter Lead/Ball Pitch etc.	Placement Speed Optimum IPC 9850	65,000 CPH 50,000 CPH	
Alignment Type	Vision Alignment by using high speed Line-Scanning Camera	Feeder Positions	76 (Front, Standard) 76 (Rear, Optional)	
Accuracy Management	Automatic On-Line Calibration	Placement Accuracy	±40µm	
Motion System	SANMOTION TM Linear Motors from SANYO DENKI, Japan	PCB Handling	50x50mm ~ 510x460mm Optional 1,200mm PCB Handling	
PCB Transport	3 Stage PCB Transport System	Component Handling	0201 ~ 100x36mm ²	
Feeding Options	Tape, Stick, Tray	Feeding Types	Tape, Stick & Tray	
Nozzle Change	Automatic Nozzle Changer	Operating System	Windows 7	



SEMI-AUTO HIGH VOLUME LONG BOARD LED MOUNTER







Precise 6/8 Nozzle Design

Electronic Feeders





Easy Maintenance

1,500mm Capability

FACTS

46Kcph* 35Kcph#

Rated Speed/ Real Speed

> Placement Accuracy

 $\pm 100 \mu m$

14/20

Electronic Feeder Positions (12mm)

No Feeder related Downtime

0

0603~ 15mm²

Large Component Range

Large Size PCB Handling

1.5m

1 ST in its class

Rigid Marble Base

Lowest Cost of Ownership

<\$35K

Features

Parameter	Details
Vision Parameters	Body Size LED Size LED Orientation Resistor/Capacitor Size IC Size IC Orientation etc.
Alignment Type	Vision Alignment by Camera
High Speed Mode	Higher Speed without Vision
Motion System	High Precision Ball Screw System
PCB Transport	1,500mm long Transport Table
Feeder Type	Electronic Tape Feeders
Non Stop Mode	Non Stop Production for Small PCBs

Parameter	HCT-330SV	HCT-530SV
Placement Speed (Rated) Real without Vision Real with Vision	40,000 CPH 36,000 CPH 32,000 CPH	46,000 CPH 41,000 CPH 35,000 CPH
Feeder Positions	14	20
Placement Accuracy	±1	00μm
PCB Handling	50x50mm ~ 1,500x390mm	
Component Handling	0603 ~ 10mm ²	
Feeding Types	8mm, 12mm, 16mm Tape	
Operating System	Windows 7	
Dimensions Weight	Approx. 2,000*1,150*1,400mm 1,400Kg	

^{*}Rated Speed is without Vision Alignment. #Real Speed on an LED Tube Light PCB with Vision Alignment









Precise 8 Nozzle Design

Electronic Feeders





Easy Maintenance

In-Line Conveyor

FACTS

42Kcph* 35Kcph#

Rated Speed/ Real Speed

> Placement Accuracy

> > $\pm 50 \mu \text{m}$

20

Electronic Feeder Positions (12mm)

No Feeder related Downtime

0

0603~ 10mm²

Large Component Range

Large Size PCB Handling

1.2m

1 ST in its class

Rigid Marble Base

Lowest Cost of Ownership

<\$40K

Features

Parameter	Details
Vision Parameters	Body Size LED Size LED Orientation Resistor/Capacitor Size IC Size IC Orientation etc.
Alignment Type	Vision Alignment by Camera
High Speed Mode	Higher Speed without Vision
Motion System	High Precision Ball Screw System
PCB Transport	1,500mm long Transport Table
Feeder Type	Electronic Tape Feeders
Non Stop Mode	Non Stop Production for Small PCBs

Parameter	Value
Placement Speed (Rated) Real without Vision Real with Vision	42,000 CPH 38,000 CPH 35,000 CPH
Feeder Positions	20 (12mm equivalent)
Placement Accuracy	±50μm
PCB Handling	50x50mm ~ 1,200x380mm
Component Handling	0603 ~ 10mm ²
Feeding Types	8mm, 12mm, 16mm Tape
Operating System	Windows 7
Dimensions Weight	2,000*1,150*1,400mm 1,680kg

^{*}Rated Speed is without Vision Alignment. #Real Speed on an LED Tube Light PCB with Vision Alignment

FARÇAD LY-30 Series

SEMI-AUTOMATIC STENCIL PRINTER











Touch Screen Control

> Dual Metal Squeegee





PLC Control

PCB Table Up-Down





PANASONIC Motor

PCB Position Adjustment (X|Y|R)





Japanese LM Guides

Lowest Cost of Ownership



Description	LY-3050	LY-3070	LY-30120
Max. PCB Size	300*500mm	300*700mm	300*1,200mm
PCB Thickness		0.2 - 5.0mm	
PCB Positioning System		Reference Pin/Blocks	
PCB Adjustment Range	±10mm in X & Y R adjustment by combination of X & Y		ion of X & Y
Printing Accuracy	±0.02mm		
Printing Repeatability	±0.02mm		
Air Pressure	0.4 - 0.6MPa		
Power		1φ, 220VAC, 50/60Hz	
Dimensions	900*800*1,580mm	1,100*800*1,650mm	1,700*800*1,650mm

^{*} Price Indication For LY-3050











2D Inspection

Flexible Stencil Clamping





Under-Stencil Cleaning

Vision System

FACTS



High Speed <8s Cycle Time#

Allowable PCB Weight

2D Inspection (PCB & Stencil)

Diagonal Warpage Allowance

High Speed Underside Cleaning

Highly Accurate Print Quality



SMEMA Interface

Lowest Cost of Ownership

<\$35K

5Kg

1%

 $\pm 25 \mu m$

Features

Parameter	
Floating Print Head With Two Independent Motors	
High Accuracy Alignment Camera	
Low Cycle Time	
High Speed Under-Stencil Cleaning	
Single Stage High Speed Conveyor	
Programmable Cleaning Mode (Dry Wet Vacuum)	
2D Inspection System (Paste Coverage & Stencil Aperture Check)	
Large Alignment Range (X,Y = ± 7 mm θ = 2.0°)	
SMEMA Compatibility	

Parameter	Value
Max. PCB Size	500*340mm*
Stencil Size	470*370mm ~ 820*737mm
Allowed Warpage	Up to 1% Diagonal Length
Transport Speed	100 ~ 1,500mm/s (Programmable)
Squeegee Speed	10 ~ 200mm/s (Programmable)
Printing Accuracy	±25μm @ 6σ
Cycle Time	<8s
Power	220VAC, 1φ, 50/60Hz 1.5KW
Dimensions	1,250*1,440*1,505mm

[#] Excluding Printing Time *600mm PCB Length available in HP-600









2D Inspection

Flexible Stencil Clamping





Under-Stencil Cleaning

Vision System

FACTS



High Speed <12s Cycle Time#

Allowable PCB Weight

5Kg

0

2D Inspection (PCB & Stencil)

1%

Diagonal Warpage Allowance

High Speed Underside Cleaning SMEMA Interface

Highly Accurate Print Quality Lowest Cost of Ownership

±25μm

<\$45K

Parameter Floating Print Head With Two Independent Motors High Accuracy Alignment Camera Low Cycle Time High Speed Under-Stencil Cleaning Single Stage High Speed Conveyor Programmable Cleaning Mode (Dry | Wet | Vacuum) 2D Inspection System (Paste Coverage & Stencil Aperture Check) Large Alignment Range (X,Y = ±7mm | θ = 2.0°) SMEMA Compatibility

Specifications

Parameter	Value
Max. PCB Size	1,200*350mm
Stencil Size	1,100*300mm ~ 1,500*750mm
Allowed Warpage	Up to 1% Diagonal Length
Transport Speed	100 ~ 1,200mm/s (Programmable)
Squeegee Speed	10 ~ 200mm/s (Programmable)
Printing Accuracy	±25μm @ 6σ
Cycle Time	<12s
Power	220VAC, 1¢, 50/60Hz 1.5KW
Dimensions	2,220*1,220*1,500mm

Features

[#] Excluding Printing Time

FARÇAD LY-660011





Mesh + Chain Transport

Efficient Thermal Design





Auto Chain Lubrication

Fume Extraction System





Air Convection Top & Bottom

Running Power Consumption





Internal Cooling Zone

Temperature Accuracy

±1°C



PC Control

In-Built Temperature Profiler





Dual Side SMD PCB Handling

Lowest Cost of Ownership



Features

Parameter	
Forced Air Convection on Top & Bottom Zones	
1 Internal Software Controlled Cooling Zone	
Chain Transport for Dual-Side SMD PCB Handling	
Windows 7 Based PC Control	
In-built Temperature Profiler	
Low Power Consumption	
High Quality Heat Insulation	
Low/High Abnormal Temperature Alarm	
Lead Free Ready	

Parameter	Value	
Heating Zones	6 Top + 6 Bottom Heating Zones	
Heating Length	2,500mm	
Cooling Zone	1 Zone, 500mm	
PCB Transport	Mesh + Chain Transport	
Transport Speed	0 ~ 1,500mm/min	
Max. PCB Width	300mm (Chain) 400mm (Mesh)	
Warm-Up Time	Approx. 20 minutes	
Power Consumption	Start up Running - ~ 26kW 3-5kW	
Dimensions Weight	3,700*1,100*1,450mm 700Kg	

FAR©AD LY-880011







Mesh + Chain Transport

Efficient Thermal Design





Fume Extraction System

Wide Range of Options

FACTS



Air Convection Top & Bottom

Running Power Consumption





Internal Cooling Zone

Temperature Accuracy

±1°C



PC Control

In-Built Temperature

Profiler

Dual Side SMD

PCB Handling

Lowest Cost of Ownership



Features

Parameter	
Forced Air Convection on Top & Bottom Zones	
1 Internal Software Controlled Cooling Zone	
Chain Transport for Dual-Side SMD PCB Handling	
Windows 7 Based PC Control	
In-built Temperature Profiler	
Low Power Consumption	
High Quality Heat Insulation	
Low/High Abnormal Temperature Alarm	
Dual Lane No Ontions Available	

Specifications (for LY-8800II)

Parameter	Value	
Heating Zones	8 Top + 8 Bottom Heating Zones	
Heating Length	3,110mm	
Cooling Zone	2 Zones, 500mm each	
PCB Transport	Mesh + Chain Transport	
Transport Speed	0 ~ 2,000mm/min	
Max. PCB Width	400mm (Chain) 450mm (Mesh)	
Warm-Up Time	Approx. 20 minutes	
Power Consumption	Start up Running - ~ 32kW 6-8kW	
Dimensions Weight	5,350*1,350*1,550mm 1,500Kg	

[#] Please contact your local sales representative for 10/12 zones models. * Price indicated for 8 zone model.

FARÇAD LY-500 ~ 1200







Manual Width Adjustment

Antistatic Conveyor Belt





Accessible Controls

SMEMA Interface





LCD Control Panel

PLC Control

Standard

Magazine Rack



Motor

SMEMA Interface



Japanese LM Guides

Lowest Cost of Ownership





Selectable Pitch (Loader/Unloader)





Parameter	LY-500	LY-1200
Max. PCB Width	400	Omm
Conveyor Speed	Adjustable Speed Control	
Conveyor Motor	Dual Motors for Front & Rear Rai	
Conveyor Height	900±20mm	
Conveyor Direction	Left-Right (Right To Left Available)	
Interface	SMEMA Interface	
Power	1φ, 220VAC, 50/60Hz	
Dimensions (mm)	500*640*900	1,200*760*1,500



Parameter
Smooth and Parallel Conveyor Width Adjustment
Inspection and Linking Mode Selection Switch
Overhead LED Lighting (Only in LY-1200)
Conveyor Motor Speed Adjustment
Manual Conveyor Width Adjustment
Antistatic Conveyor Belt
Heavy Base to Avoid Shifting During Production
SMEMA Interface for Interconnection Upstream & Downstream

^{*} Price Indication For LY-500 | ** Magazines not included | # Without Signal Tower

FARÇAD LY-250G





PLC Controlled

LCD Control Panel





Precise Up/Down Cylinder

SMEMA Interface





LCD Control Panel

PLC Control

Standard Magazine Rack



High Quality Motor

SMEMA Interface



Japanese LM Guides

Lowest Cost of Ownership







Selectable Pitch

(Loader/Unloader)



Specifications

Parameter	LY-250G-U	LY-250G-D
Max. PCB Size	250*3	30mm
Lift Up/Down Mechanism	Step Selection of 1	0, 20, 30, 40, 50mm
Control System	PLC Based	LCD Panel
Conveyor Height	900±2	20mm
Conveyor Direction	Left-Right (Right	To Left Available)
Interface	SMEMA	Interface
Power	1¢, 220VA	C, 50/60Hz
Dimensions (mm)#	1,400*850*1,280	1,800*800*1,260

Features

Parameter
Automatic Magazine Changeover with User Selectable Pitch
Solid Casted Base for Machine Stability
Dual Pneumatic Clamping for Magazine Alignment
Adjustable Pressure for PCB Pusher Arm
Industry Standard Tower Light Display
PLC Controlled
LCD for User Parameter Programming
SMEMA Interface for Interconnection Upstream & Downstream

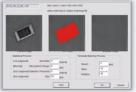
^{*} Magazines not included | # Without Signal Tower

INLINE 2D HIGH RESOLUTION HIGH SPEED AOI









Complex PCB Inspection

Rotated Component Support





User Friendly Operation Extra Component Detection





Line Color CCD Camera

High

Lighting Source











High Speed Inspection

2D Barcode Option







Features

Parameter
Line Scan Technology — Core Technology of Saki
Tele-centric Lens for Distortion-Free Images
Coaxial Parallel Light Illumination for Eliminating Shadows
20 Different Combinations for Best Inspection Results
Multiple Stage Inspection (Pre/Post Reflow/Wave)
Flat Belt PCB Transfer
Automatic Conveyor Width Adjustment
No Camera, Lens, Gantry Maintenance Costs
MTBF More Than 180 Months

Parameter	BF-Frontier II	BF-10S
Max. PCB Size	460*500mm	250*330mm
Inspection Parameters	Tombstone, Revers Foreign Material, Insufficient Solder,	ce, Misalignment, se, Polarity, Bridge, , Solder Absence, , Lifted Lead, Lifted et Defect
Camera	Line Color CCD Camera	
Tact Time	21s ^{#1}	18s ^{#2}
Resolution	18µm	10μm
Lens Type	Tele-Centric Lens	
Dimensions (mm)	850*1,340*1,230	700*1,215*1,104

^{#1} For PCB Size 460 x 500mm.

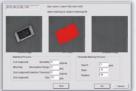
^{#2} For PCB Size 250*330mm. For smaller PCBs, Cycle time will be shorter. Includes scanning time.

saki **2D A0I**









Complex PCB Inspection

Rotated Component Support





User Friendly Operation Extra Component Detection





Line Color CCD Camera

High





Lighting Source

Multi-Stage Inspection





Color Inspection

2D Barcode Option





High Speed Inspection

Lowest Cost of Ownership



Features

Parameter
Line Scan Technology - Core Technology of Saki
Tele-centric Lens for Distortion-Free Images
Coaxial Parallel Light Illumination for Eliminating Shadows
20 Different Combinations for Best Inspection Results
Multiple Stage Inspection (Pre/Post Reflow/Wave)
Flat Belt PCB Transfer
No Camera, Lens, Gantry Maintenance Costs
MTBF More Than 180 Months
2D Barcode Recognition Option

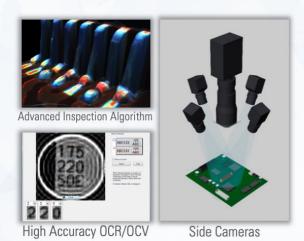
Parameter	BF-Sirius	BF-Comet
Max. PCB Size	460*500mm	250*330mm
Inspection Parameters	Presence/Absenc Tombstone, Revers Foreign Material Solder, Lifted Lead,	e, Polarity, Bridge, , Insufficient/No
Camera	Line Color CCD Camera	
Tact Time	21s ^{#1}	18s/13s ^{#2}
Resolution	18µm	10/18μm
Lens Type	Tele-Cen	tric Lens
Dimensions (mm)	800*1,280*600	580*850*452

^{#1} For PCB Size 460 x 500mm.

^{#2} For PCB Size 250*330mm on BF-Comet10 and BF-Comet18 respectively. For smaller PCBs, Cycle time will be shorter. Includes scanning time.

INLINE 3D HIGH RESOLUTION HIGH SPEED AOI









Fringe Pattern Projection

> High Resolution





LED Lighting Source

Multi-Stage Inspection





Color Inspection

2D Barcode Option





High Speed Inspection

Lowest Cost of Ownership



Features

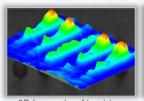
Parameter	
High Resolution Optical Head with Optional Side-Angle Cameras	
CoaXPress Camera for Faster Inspection & Measurement Process	
Scalable Optical Resolution of 7 µm, 12 µm and 18 µm	
High Resolution Linear Scale for Accurate Positioning	
Multiple Stage Inspection (Pre/Post Reflow/Wave)	
Phase Measurement Profilometry for Height Range 1-20µm	
Feedback to Pick & Place	
Automatic Conveyor Width Adjustment	
Through-hole Device Solder Inspection Verification (Fujiyama Algorithm)	

Parameter	3Di Series
Max. PCB Size	330*330mm
Inspection Parameters	Presence/Absence, Misalignment, Tombstone, Reverse, Polarity, Bridge, Foreign Material, Solder Absence, Insufficient Solder, Lifted Lead, Lifted Chip, Fillet Defect
Camera	12MP CoaXPress Camera
Resolution	7μm 12μm 18μm
Recognition Speed (mm²/s)	1,063 3,600 5,700
FOV Size (mm)	22*29 36*42 41.5*41.5
Dimensions (mm)	850*1,340*1,230

^{#1} For 3Di-MS2

INLINE 3D HIGH RESOLUTION HIGH SPEED SPI



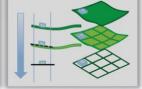




3D Inspection Algorithm

CoaXPress Camera





Feedback to Printer

Auto Warpage Compensation





Fringe Pattern Projection

> High Resolution



High Quality Camera Optics



Color

Inspection

2D Barcode Option



High Speed Inspection

Lowest Cost of Ownership





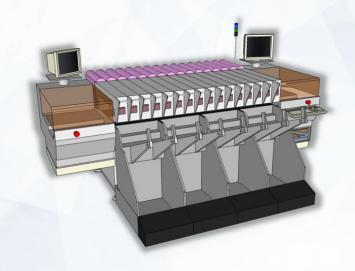


Features

Parameter	
High Resolution Optical Head with Multiple Projectors	Ī
CoaXPress Camera for Faster Inspection & Measurement Process	
Scalable Optical Resolution of 7 µm, 12 µm and 18 µm	
High Resolution Linear Scale for Accurate Positioning	
Phase Measurement Profilometry for Height Range 1-20µm	
Feedback to Printer	
Automatic Conveyor Width Adjustment	
Saki Self-Programming (SSP) Software for Fast Programming	
Dual Lane Option Available	

Parameter	3Di Series
Max. PCB Size	330*330mm
Inspection Parameters	Solder Paste Height, Volume, Area, Bridging, Offset and Shape
Camera	12MP CoaXPress Camera
Resolution	7µm 12µm 18µm
Recognition Speed (mm ² /s)	1,063 5,500 6,400
Height Measurement Range	500μm
Height Resolution	0.1µm
Dimensions (mm)	850*1,340*1,230









Walking Beam Transport

Electronic Feeders





FLEX Pallets

Feeder Trolley

FACTS

60Kcph

Practical Output*

Changeover Time with FLEX Pallets

>95%

High Efficiency with Walking Beam

LED Tubelight PCBs/month*

1.2m

LED Tube Light PCB Handling

LED Lamp Drivers/month* 1 ST in its class

Highest Output per sq.m.

Lowest Cost of Ownership

<€69K

0

>300K

~2Mn

Features

Details
16x Robots, 16x Placement Heads, 4x Feeder Trolleys
1x Adjustable Carrier Kit
30x 8mm, 5x 12mm,2x 16mm Intelligent Feeders
30x Nozzles for various sizes
First Time Options incl. Carrier Adj. Tool, Multiflex Cal Set, etc.
1,200mm upgrade (H/W & S/W)
Set of Flexible Pallets for Zero Changeover
FULLY REFURBISHED, with 3 Months Comprehensive Warranty

Parameter	Value
Rated Speed	96,000CPH
Practical Speed	60,000 - 65,000 CPH
PCB Handling	Up to 1,200 x 350mm
Component Handling	0201 up to 16mm Tape Components
Pick Efficiency	>99.7%
Feeder Type	Intelligent Feeders
Power Air	400V, 3φ, Running ~3kW 100NL/min
Dimensions Weight	3,120 x 2,150 x 1,290mm 2,500kg

^{*}Real Speed on customer product can be simulated with ± 5% Accuracy









Fully Refurbished

Calibrated & Tested





Easy Spares Availability Brand New Copy Feeders

>10

Years

Residual Life

FACTS

5-15 Kcph

> Practical Output*

Comprehensive Warranty

> 90 Days

~99%

As Good As New

Return on Investment

<180 Days

1.2m

LED Tube Light PCB Handling

Hassle Free Spares Availability

0

Lowest Cost of Ownership

<€20K

Specifications (Topaz)

Parameter	Value
Rated Speed	14,000CPH
Practical Speed	9,000 - 11,000 CPH
PCB Handling	Up to 1,200 x 407mm (Optional)
Component Handling	0402 up to 25mm ²
Accuracy	±80μm
Feeder Type	Pneumatic
Power Air	400V, 3φ, Startup <4.5kW, Running <2kW <350NL/min at Min. 5.5 Bar
Dimensions Weight	1,655 x 1,865 x 1,358mm 1,150kg

Specifications (Topaz X[i])

Parameter	Value
Rated Speed	18,000CPH
Practical Speed	12,000 - 14,000 CPH
PCB Handling	Up to 1,200 x 407mm (Optional)
Component Handling	0201 up to 32mm ²
Accuracy	±60μm
Feeder Type	Pneumatic (Intelligent optional)
Power Air	400V, 3φ, Startup <4kW, Running <2kW <350NL/min at Min. 5.5 Ba
Dimensions Weight	1,650 x 1,850 x 1,408mm 1,570kg

^{*} Different options available

STENCIL PRINTERS
PICK & PLACE MACHINES
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WAVE SOLDERING MACHINES
INSPECTION EQUIPMENT
BOARD HANDLING EQUIPMENT
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REFURBISHED EQUIPMENT

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HEAD OFFICE

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CHENNAI

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