Made ID Nor-Max Provide Provide Constraint											
Institution Topperson provide in additional (o) (2.11) C220 (Feal) Description (Feal) Other (Comparison of Comparison of	Model ID										
Image: Instruction in the second s	Front head	Rear head	Lightweight 16-nozzle head V3	A 12-nozzle hea	d Lightweight 8-nozzl	e head	3-nozzle h	ead V2	Dispensing hea	ad	No head
Upbrought F-rozzie hand NM-EM/VD NM-EM/VD NM-EM/VD NM-EM/VD Bispersing hand NM-EM/VD-AND											
Upptivegring the node haddy Broger than haddy more close to hadd NM-EMA7D-MA NM-EMA7D-				N	M-FIM7D				NM-FIM7D-M	D	NM-FIM7D
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Impaction head NM-EM/2D-A NM-EM/2D-A No.ed MM-EM/2D-A MM-EM/2D-A MM-EM/2D-A No.ed Single-Lance:											
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Data Data <th< td=""><td></td><td></td><td>Datch mounting 1.5</td><td></td><td></td><td></td><td>nositin mounting</td><td>1.50 -</td><td></td><td></td><td></td></th<>			Datch mounting 1.5				nositin mounting	1.50 -			
Dual-later- inspector Single tasker (table) L 50 mm x W 510 mm Single tasker (table) L 50 mm x W 510 mm Precumatic source - Dimensions - W 1280 mm x 0 2 465 mm x H 1444 mm - 2 4850 kg - 2 4800 cph (10851/dp) 3500 cph (10811/dp) 3200 cph (10811/dp) 31200 cph (10811/dp) 200 cph (10811/dp) 200 cph (10831/dp) 200 cph (10851/dp) 200 cph (1081/dp) 200 cph		- 0	0					_			
Electric source 3-phase AC 200, 220, 380, 400, 420, 480 V 2.8 kVA Perumatic source 2.0, 50 MA, 200 L /m (A.R.). Dimensions - W 1280 mm × D 2 323 mm × H 1 444 mm ~ // 280 kg + // 2780 kg + // 2880 kg + // 2780 kg + // 2880 kg +	dimensions	Dual-lane∗1									
Preumatic source - 0.5 A/B a. 200 L / min (A.N.R.) Mas - 2650 kg - 27.266 kg - 27.2760 kg - 27.	Electric co					mm Ji	ligie transier (z-positii	/ L 50 m	m × VV50 mm to L	350 r	nm × VV 510 mm
Dimensions W 1280 mm × D 2 465 mm × H 1444 mm ·- // X1280 mm × D 2 323 mm × H 1444 mm ·- // Z280 mm / Cm 20 mm / Cm 2					,400 V 2.0 KVA						
Mass 2.890 kg /2.700 kg Placement had Uptivergift 5-most head (34 / Per head) Uptivergift 5-most head (32 / Per head) Standard Per head Placement had High potaction model (01) lip production model					mm /\\/1.20	0	v D 2 2 2 2 mm	V II 1 /	44 mm		
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Placement spectra with production model (ON) with pro	INASS		0	head V2A (Day head)		0	(hood)	12.10.00			
Placement speed ta cybin container ta cybin	Placemen	1t head									
The approximation and the second process of the second proces of the second process of the second proces of the second proce	Placomon	t speed								8 37	
Placement accuracy (Cpk21) response ± 40 μm / chip (± 25 μm //chip ± 30 μm / chip ± 120 μm / chip ± 100 μm			42 000 cph (0.086 s / chip)	35 000 cph (0.103 s/ chip)	32 250 cph (0.112 s/ chip)	31 250) cph (0.115 s / chip)	20 800 c	ph (0.173 s / chip)		
a dynamic contracts QQ2 w clip bit 55 x W85 x 137.6 w Tape 14 to 56 / 72 m Ta	Placement a	iccuracy (Cpk≧1)	±40 µm/chip		±40 µ m / chip	±30 ı	um / chip			± 30	μm/QFP
Component dimensions (a) WU2 and possible (MU2 and pos	*at	optimum conditions	. FE	$(\pm 25 \mu \text{ m/cnip})$	· • · · · • · · •		· · · · · P		-		
Component durichadur (m) bit 55 x W3 5 x 13/16 m bit 55 x W3 5 x 13/16 m bit 55 x W3 5 x 13/16 m cmponent (m) Tape : 4 / 18 / 12 / 16 / 24 / 32 / 44 / 56 mm Tape : 4 / 18 / 12 / 16 / 24 / 32 / 44 / 56 mm Stock Tape : 4 / 18 / 12 / 16 / 24 / 32 / 44 / 56 mm Tape : 4 / 18 / 12 / 16 / 24 / 32 / 44 / 56 mm Tape : 4 / 18 / 12 / 16 / 24 / 52 / 72 / 88 / 104 m Stock Tape : 4 / 18 / 12 / 16 / 24 / 32 / 44 / 56 mm Tape : 4 / 18 / 12 / 16 / 24 / 32 / 44 / 56 mm Tape : 4 / 18 / 12 / 16 / 24 / 32 / 44 / 56 mm Dispensing nead Olf 5 / dot (Condition: XY = 10 m / 26 m Dot dispensing Az5 s / component (Condition: 30 mm x30 mm corner dispensing) = 4 / 40 / m x 30 mm corner dispensing) = 4 / 44 / mm x 37.2 mm Applicable components 1608 chip to SOP, PLCC, QFP, Connector, BGA, CSP BCA, CSP 2D inspection head (8) Resolution 18 µm 2 / 1 mm x 17.6 mm 9 µm View size 44.4 mm x 37.2 mm 21.1 mm x 17.6 mm Package component: 0 10 µm x 150 µm or more (0603 or more) Package component: 0 / 0.2 m or more) Inspection Solder Inspection exclusion 0.5 s / View size Inspection Solder Inspection reading Side inspection reading Solder Inspection Os go f / 20 µm or more CP / 20 µm or more) ** 20 µm ± 10 µm ** 20 µm ± 20 µm ** 20 µm ± 20 µm	Component	t dimonsions ()			:015'8'9 / 0402'8 chip				0402 ° CIIIP		20'× W 90 × T 30 / T 40-11
Tapical Tap: 4 / 8 / 12 / 16 / 24 / 32 / 44 / 56 mm Tap: 4 to 56 / 72 mm <t< td=""><td>component</td><td>camensions (m)</td><td>to L 8.5 × W 8.5 × T 3 / T 6 *10</td><td>to L 8.5 × W 8.5 × T 3 / T 6 *10</td><td>0+02-3 cmp t0 L 12 2</td><td>• VV I∠</td><td>2.010.0</td><td></td><td></td><td>or L 15</td><td>50 × W 25 × T 30 / T 40*11</td></t<>	component	camensions (m)	to L 8.5 × W 8.5 × T 3 / T 6 *10	to L 8.5 × W 8.5 × T 3 / T 6 *10	0+02-3 cmp t0 L 12 2	• VV I∠	2.010.0			or L 15	50 × W 25 × T 30 / T 40*11
Component supply Tay ing Tray Max.120 (4, 8 mm tape) Stick — Max.30 (Twin tray feeder) Max.40 (Twin tray feeder) Dispensing head Dot dispensing Dispensing speed -so Abevie patient actural (Dk1)- at 55 µm / dot Dot dispensing Dot 20 inspection need Applicable component Dispensing head Draw dispensing Dispensing head Applicable components 1608 chip to SOP, PLCC, QFP, Connector, BGA, CSP BGA. CSP BGA. CSP Resolution 18 µm 9 µm Inspection head 20 inspection head (E) Resolution 18 µm 9 µm Inspection Insp			Tapo : 1 / 0 / 12 / 1	6/7//27/////	mm				-		
Stick — Max 30 (Single stick feeder) Tray Dispensing head Dot dispensing Max 30 (Single stick feeder) Dispensing speed 0.16 s / dot (Condition : XY=10 m, Z=less than 4 m movement, No 8 rotation) 4.25 s / component (Condition : 30 mm x 30 mm corner dispensing)+s Ambrie points maxing (Qis1)-us / 25 µ m / dot ± 100 µ m / component ± 100 µ m / component Applicable components 1608 chip to SOP, PLCC, QFP, Connector, BGA, CSP BGA, CSP Inspection head 20 inspection head (S) 20 inspection head (S) Solder Inspection 0.5 s / View size 21.1 mm × 17.6 mm Inspection Solder Inspections 0.5 s / View size Chip component: 9150 µ m or more Solder Inspection- Solder Inspection- Solder Inspection- Solder Inspection- Inspection Solder Inspection- Solder Inspection- Solder Inspection- No of Solder	Component	Taping	I		• 11111			Tape • 4		Tape	4 10 30 / 72 / 88 / 104 1111
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Adheise polition accuragy (Gk21)-rg1 ± 75 μ m / dot ± 100 μ m / component Applicable components 1608 chip to SOP, PLCC, QFP, Connector, BGA, CSP BGA, CSP Resolution 18 μ m 9 μ m View size 44.4 mm × 37.2 mm 21.1 mm × 17.6 mm Impection 0.35 s / View size 0.5 s / View size Impection 0.35 s / View size 0.5 s / View size Solder Chip component : 100 μ m / stopper (http://stopper (http:		0	046 (1) (6 1)				4.25 /			0	
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Inspection Lead 2D inspection head (A) 2D inspection head (B) Resolution 18 μm 9 μm View size 44.4 mm × 37.2 mm 21.1 mm × 17.6 mm Inspection 0.35 s / View size 0.35 s / View size Inspection 0.5 s / View size 0.5 s / View size Component := 00 µm × 150 µm or more (0603 or more), SOP, QFP (a pitch of 0.4 mm or more), SOP, GFP (a pitch of 0.4 mm or more), SOP, GFP (a pitch of 0.4 mm or more), SOP, GFP (a pitch of 0.4 mm or more), SOP, GFP, BGA, Aluminum electrolysis capactor, Volume, Timmer, Coil, Connector volume, SOP, BGA, Aluminum electrolysis capactor, Volume, Timmer, Coil, Connector volume, Timer, Coil, Connector volume, Timmer, Coil, Connector v											
Resolution 18 µm 9 µm View size 44.4 mm × 37.2 mm 21.1 mm × 17.6 mm Inspection 0.35 s / View size 21.1 mm × 17.6 mm Graphent Inspection			1008 chip to 30P , P				BUA, CSP	-			
View size 44.4 mm × 37.2 mm 21.1 mm × 17.6 mm Inspection bigettion object 0.35 s / View size 0.35 s / View size Component Inspection object Solder Inspection Solder Inspection Solder Inspection Sold			10	2D inspection nead	I (A)		0	2	D inspection nead	I(D)	
Inspection imervis O.35 s / View size Solder Inspection inspection object O.35 s / View size Inspection inspection object Chip component : 0 µm × 150 µm or more (Component Square chip (0603 or more), SOP, OFP (a pitch of 0.4 mm or more), SCP, BGA, Aluminum electrolysis capacitor, Volume, Trimmer, Coil, Connector-v Chip component : 0 µm × 120 µm or more Package component : 0 µm × 120 µm or more Solder Inspection items Solder Inspection Component items Cozing, blur, misalignment, abnormal shape, bridging Missing, shift, flipping, polarity, foreign object inspection items Solder Inspection more inspection items Solder Inspection more inspection items ± 10 µm No, of Inspection "1 release refer to the specification is spection "2 ohly for marbody ± 20 µm ± 10 µm **1 - Bease refer to the specification NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connect it to NPM-D3 / D2 / D. It cannot be connec								76			
processing two strip Component Inspection (bject) 0.5 s / View size Chip component 1: 00 μm × 150 μm or more (0.5 s / View size) Chip component 1: 80 μm × 120 μm or more Package component 1: φ120 μm or more (0.5 g, BGA, Aluminum electrolysis capacitor, Volume, Trimmer, Coil, Connector-v (SP, BGA, SP, To Connector-v (SP, BGA, SP, To Conneton-v (SP, BGA, SP, To Connector-v (SP, BGA, SP, To Con				1			21.1 000 ×	0.01			
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Inspection Inspection vis Package component : φ120 μm or more Package component : φ120 μm or more Object Gruppent Inspection vis Square chip (0603 or more) ; SOP, QFP (a pitch of 0.4 mm or more) ; CSP, BGA, Aluminum electrolysis capacitor , Volume , Trimmer , Coil , Connector vie Square chip (0402 or more) ; SOP, QFP (a pitch of 0.3 mm or more) ; CSP, BGA, Aluminum electrolysis capacitor , Volume , Trimmer , Coil , Connector vie Inspection Solder Inspection vis Oozing , blur , misalignment , abnormal shape, bridging _ component inspection vis CSP, BGA, Aluminum electrolysis capacitor , Volume , Trimmer , Coil , Connector vie Inspection polition acturacy (Cpk21) vie ± 20 μm ± 10 μm No. of inspection vis Solder Inspection vis Max. 10 000 pcs. / machine (No. of components : Max. 10 000 pcs. / machine) Please refer to the specification booklet for details. *6 : ± 25 μm placement support option. (Under conditions specified by Planasonic) *15 The inspection process time differs depending on inspection and component is pacification booklet for details. *1 Please consult us separately should you connect in to NPM-TI and NPM. Ti and NPM. Ti and NPM. The addition specified by Planasonic) is pleasement accuracy ± 30 μm / chip) *15 The inspection and components. (Under conditions specified by for assonic - Please met accuracy ± 30 μm / chip) *16 : cone head cannot handle solder inspection and components. (Under conditions specified by for assonic - Please met accuracy ± 30 μm / chip) *15 The inspection and components. (Unde	ame *15			00 um x 150 um	or more (0602 or mo		Chin compos	ont . 00 .	Im X 120 IIm cr.	nora (0402 or more)
object Component Inspection ns Square chip (0603 or more), SOP, QFP (a pitch of 0.4 mm or more), CSP, BGA, Aluminum electrolysis capacitor, Volume, Trimmer, Coil, Connector no Square chip (0402 or more), SOP, QFP (a pitch of 0.3 mm or more), CSP, BGA, Aluminum electrolysis capacitor, Volume, Trimmer, Coil, Connector no Inspection Solder Inspection ns Oozing, blur, misalignment, abnormal shape, bridging Component Inspection ns Missing, shift, flipping, polarity, foreign object inspection ns Inspection position accuracy (Gpk21) -s * at optimum conditions ± 20 µm ± 10 µm No. of Solder Inspection ns Max. 30 000 pcs. / machine (No. of components: Max. 10 000 pcs. / machine) ************************************	Inspection					ore)	Package com	nonent : d	111 × 120 μm or n 120 μm or more	nore (0402 of more)
1 Inspection Gyp BcA: Aluminum electrolysis capacitor, Volume, Trimmer, Coll, Connector-v Inspection Coping, blur, misalignment, abnormal shape, bridging Gyp BcA: Aluminum electrolysis capacitor, Volume, Trimmer, Coll, Connector-v Inspection Solder Inspection-s Missing, shift, flipping, polarity, foreign object inspection ris ± 20 µm ** a toptimum conditions ± 20 µm ± 10 µm ** a toptimum condition Max. 30 000 pcs. / machine Max. 10 000 pcs. / machine Please refer to the specification booklet for details. **: ± 20 µm lacement support option. (Under conditions specified by Panasonic) **: ± 10 µm *1: Please consult us separately should you connect it to NPM-TT and NPM. **: ± 20 µm lacement support option. (Under conditions specified by Panasonic) **: ± 10 µm *1: Please consult us separately should you connect it to NPM-TT and NPM. **: ± 0 µm for 0.000 pcs. / machine **: ± 10 µm *1: Please consult us separately should you connect it to NPM-TT and NPM. **: ± 0 µm for 0.000 pcs. / machine **: ± 0 µm for 0.000 pcs. / machine *1: Please refer to the specification booklet for details. **: ± 10 µm **: ± 10 µm **: ± 10 µm *1: Please refer to the specification booklet for details. **: ± 0 µm for 0.000 pcs. / machine **: ± 10 µm **: ± 10 µm *1: Please refer			0 1							of∩ 2 ~	am or more)
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items Component Inspection 16 Missing , shift , flipping , polarity , foreign object inspection 18 Inspection position accuracy (cpk ≥1) -19 * at optimum conditions ± 20 µm ± 10 µm No, of inspection Solder Inspection 16 Max. 30 000 pcs. / machine (No. of components : Max. 10 000 pcs. / machine) Please refer to the specification booklet for details. *6 : ± 25 µm placement support option. (Under conditions specified by Panasonic) *15 : The inspection process time differs depending on inspection *7 : The placement angle recognition setting needs to be enabled. *15 : The inspection process time differs depending on inspection *7 : The placement angle recognition setting needs to be enabled. *15 : The inspection process time differs depending on inspection *7 : The placement angle recognition setting needs to be enabled. *15 : The inspection process time differs depending on inspection *7 : The placement angle recognition setting needs to be enabled. *15 : The inspection process time differs depending on inspection *7 : The placement accuracy ± 30 µm / chip *1 : Soluding the monitors, signal tower and ceiling fan cover *1 : Fo acluses dicitated short nozzle in mor less. *15 : The inspection position accuracy *10 µm / chip *15 : Soluding and mass for standard configuration. *10 µm *12 : D'138 m is option. *10 µm *15 : The output in the option al configuration. *15 : The output in the option al configuration. *15 : The inspection position accuracy *10 inspection position accuracy *10 : To needs decitated short nozzle in moretss. *17 : Please refer to the specification bookl									,		
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Panasonic **CONNECT**

Model ID

Model No. NM-EJM7D





*Photograph is NM-EJM7D

•Please read the User's Manual carefully to familiarize yourself with safe and effective usage procedures. To ensure safety when using this equipment, all work should be performed according to that as stated in the supplied Operating Instructions. Read your operating instruction manual thoroughly.

Panasonic Group products are built with the environment in mind. For details here

Panasonic Connect Co., Ltd. Circuit Formation Process Business Division

Panasonic GREEN IMPACT

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Changes in specifications and appearance may be made without notice for product improvement.
 Please contact us via our website at https://industrial.panasonic.com/ww/r/fw

Inquiries..

2025

Electronics Assembly System

Production Modular Catalogue

NM-EJM7D-MD NM-EJM7D-D NM-EJM7D-MA NM-EJM7D-A NM-EJM7D-MD NM-EJM7D-D



*It may not conform to Machinery Directive and EMC Directive in case of optional configuration and custom-made specification

"Autonomous Factory" Concept *

A factory that immediately responds to every situation and continues to evolve autonomously

Ensuring the production of non-defective items through the integrated control of autonomous uninterrupted mounting lines and floors independent of any human intervention and judgment



*Under development toward the realization of the concept

5M management

Plan

Formulation Al





Resource* plan Shipment plan

Production capacity Resource* usage

Project optimization / Resource* allocation instructions to maximize productio with specified existing resources*



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Materia

5M

Management Maximize **Decision Quality**

-Maximize decision quality in investments that directly impact ROI-

With the goal of maximizing management effects with minimum investment, the plan development AI calculates the resources* that you need to accomplish the goal.It visualizes the differences between the goal and the reality of your current situation, which can contribute to your business decision making. Thus, it helps you to improve daily management figures, as well as to efficiently judge whether to receive any orders from new customers.

Entire factory Maximize

Resource Efficiency

-Maximize resource* efficiency to reduce TCO-With the objective of making maximum use of the

resources* charged into your factory floor, the plan development AI monitors and manages the conditions of floor resources* relative to emerging floor variation 191 factors, such as operational errors, machine problems or defective materials, and thereby minimizes such variations.

In addition, it also seeks to reduce TCO by providing the floor operators with on-target instructions, according to its optimal plan, for addressing daily variations.

floor Maximize 0.E.E

....

-Maximize O.E.E to be confident in achieving production plans-

With the aim of maximizing O.E.E, the hardware automatically collects mounting quality information, as well as the sign of any error or change in resource*, and then Production Implementing AI autonomously corrects the error or change on a line-wide level or notifies the operator of it.

By using the outcomes that it has learnt, the AI will automatically identify responsible factors and make fine tuning of equipment, accordingly, which have so far belonged to the realm of Takumi know-how alone.



Higher productivity and quality with printing, placement and inspection process integration

Depending on the PCB you produce, you can select High-speed mode or High-accuracy mode.

For larger boards and larger components

PCBs up to a size of 750 × 550 mm with component range up to L 150 × W 25 × T 30 mm The range of available components can be further broadened optionally.

Higher area productivity through dual lane placement 3

Depending on the PCB you produce, you can select an optimal placement mode -"Independent""Alternate" or "Hybrid"



Dispensing head



2D inspection head

*For details of the process unit. refer to the specification booklet



Multi-functional transfer unit



Tray feede (20 Component types)



Tray feede (40 Component types)

*1:Intelligent Tape Feeder *2:L size is also available depending on part size. *3:Auto Setting Feeder *4:Loading Unit *5:Stick Feeder 3-slot *6:Dipping Unit



Highly-versatile head & wide platform Placement Heads



*1: The "Thin type single tape feeder" and "Autoload feeder" require the "Master jig for thin type single feeder" and "Attachment for thin type single feeder". *2: Intelligent Tape Feeder *3 Auto Setting Feeder



PCB exchange time reduction

Two PCBs can be clamped on one stage (PCB length: 350 mm or less) . And Higher productivity can be realized by reducing PCB exchange time.





- Reduces in travel / recognition time to recognize bad marks.

Automatic replacement of support pins (option)

Automate position change of support pins to enable non-stop changeover and help save man-power and operation errors.

Quality improvement

Placement height control function

Based on PCB warpage condition data and thickness data of each of the components to be placed, the control of placement height is optimized to improve mounting quality.

Operating rate improvement

Feeder location free

Within same table, feeders can be set anywhere. Alternate allocation as well as setting of new feeders for next production can be done while the machine is in operation.

*Feeders will require off-line data input by support station (option) .





APC system

*1:APC-FB (feedback) / FF (feedforward): 3D inspection machine of another company can be also connected. (Please ask your local sales representative for details.) *2:APC-MFB2 (mounter feedback2): Applicable component types vary from one AOI vendor to another. (Please ask your local sales representative for details.)



Prevents setup errors during changeover. Provides an increase of production efficiency through easy operation.

Component Verification option

Changeover ability

High-quality placement



Prevents misplacement by verifying production data with the barcode nformation on changeover components. Because the machine makes verification, you do not need to select target data, separately. If wrong component is set. or verification has yet to be mad, the machine is brought to a stop.

ing leve Nozzle Chin (L/C/R/D)

LCR checker An LCR check is performed on mounted components at the start of production, or during component supply or product changeover. It helps detect wrong reels loaded and defective components. In addition, because verified data is output to a file on LNB (FA PC), the data can also be used for trace nanagement

> Component size 0402 ~ ⁽¹⁾6 mm Resistance , Capacitor Inductor, Diode

Automatic changeover option

All machines, including NPM, in SMT line are connected via iLNB, which allows automatic changeovers to be performed sequentially,



Feeder setup navigator option

It is a support tool to navigate efficient setup procedure. The tool factors in the amount of time it takes to perform and complete setup operations when estimating the time required for production and providing the operator with setup instructions. This will visualize and streamline setup operations during setup for a production line.







nstructions can be checked from anywhere

Operating rate improvement

A component supply support tool that navigates efficient component supply priorities. It considers the time left until component run-out and efficient path of operator movement to send component supply instructions to each operator. This achieves more efficient component supply.



Information of mark recognitions done on first NPM machine in line is passed on to downstream NPM machines. Which can reduce cycle time utilizing the transferred information. The machine can also obtain bad mark information from its upstream third-party machine as well. (option)





All marks are recognized at the first machine and downstream machine *Please refer to "Specification" booklet for details.

Data Creation System

This is a software package that provides integrated management of component library and PCB data, as well as production data that maximizes mounting lines with high-performance and optimization algorithms.



*1 : A computer must be purchased separately.

*2 : NPM-DGS has two management functions of floor and line level

Offline Camera unit V2

New component data can be created offline without relying on an individual operator's skill and proficiency, thus contributing to quality improvement and O.E.E maximization.

Thanks to adoption of a new component recognition camera and a wider variety of dedicated software functions, it now enables you to create component data more efficiently.





Offline Camera unit V2

NPM-DGS

LCR checker

starting from the first machine in the line. Trigger for changeover

You can select from among the following three methods: PCB ID reading using an external scanner, Production plan, and Report / Kanban reading.

Parts supply navigator option

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*PanaCIM is required to have operators in charge of supplying components to multiple production lines.

PCB information communication function









NPM-DGS (Model No.NM-EJS9A)

CAD import



Allows you to import CAD Realizes high productivity data and check polarity, etc., on the screer

PPD editor



Undate production data on PC during production of the component lib to reduce the loss of time. including mounting,



Optimization

and also allows you to create common arrays

Component library



Allows unified management of the component library inspection and dispensing

Optimization of setup option

In production involving multiple models, setup workloads are taken into account and optimized.

For more than one PCB sharing common component placement, multiple setups may be required due to a shortage of suppy units. In order to reduce the required setup workloads in such a case, this option divides PCBs into similar component placement groups, selects a table (s) for setup and thus automates component placement operation It contributes to improving setup performance and reducing production preparation time for customer manufacturing various kinds of products in small quantities. Example:

🗋 Setup group 🛛 🗕 Setup table Line PCB Group 2 Group 1 Group D D,

DGS Automation option

Automated manual routine tasks reduce operation errors and data creation time. Manual routine tasks can be automated. By collaborating with the customer system, the routine tasks for creating data can be reduced, so it contributes to a significant reduction in production preparation time.

It also includes the function to automatically correct the coordinates and angle of the mounting point (Virtual AOI)

Automated tasks (excerpt)

- CAD import
 Offset mark setting
 PCB chamfering
- Mounting point
- misalignm
- Job creation
- Optimization
- PPD outpu load