# **Production Management System Pegasus**

TOMAS TECH CO., LTD.

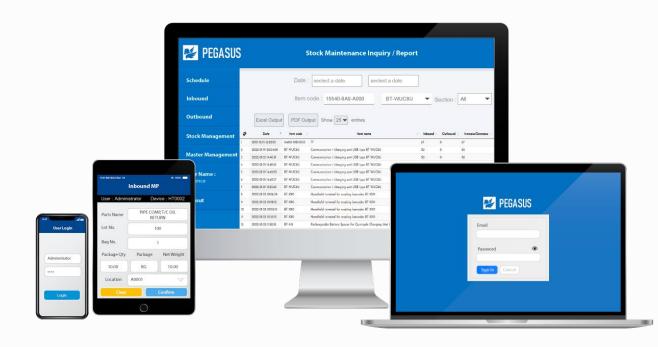
### Introducing Production Management System Pegasus

# What is PEGASUS production control system?

### Make complex management tasks smoother. This is an application specialized for the manufacturing industry.

In the manufacturing industry in recent years, there is an increasing demand for "Small quantity and high variety" and "Short delivery time" in order to adapt to the diversifying changes in market needs. In addition, at many sites, daily mass production and small lot production are carried out in parallel, so the management work is becoming more bloated and complicated, and precise schedule management and inventory management are required.

With the PEGASUS production management system dedicated to the manufacturing industry, which was developed to improve the on-site performance of the manufacturing industry, the complicated management work that was previously done with whiteboards and Excel can be visualized digitally, resulting in a large cost. Customer can cut Cost.





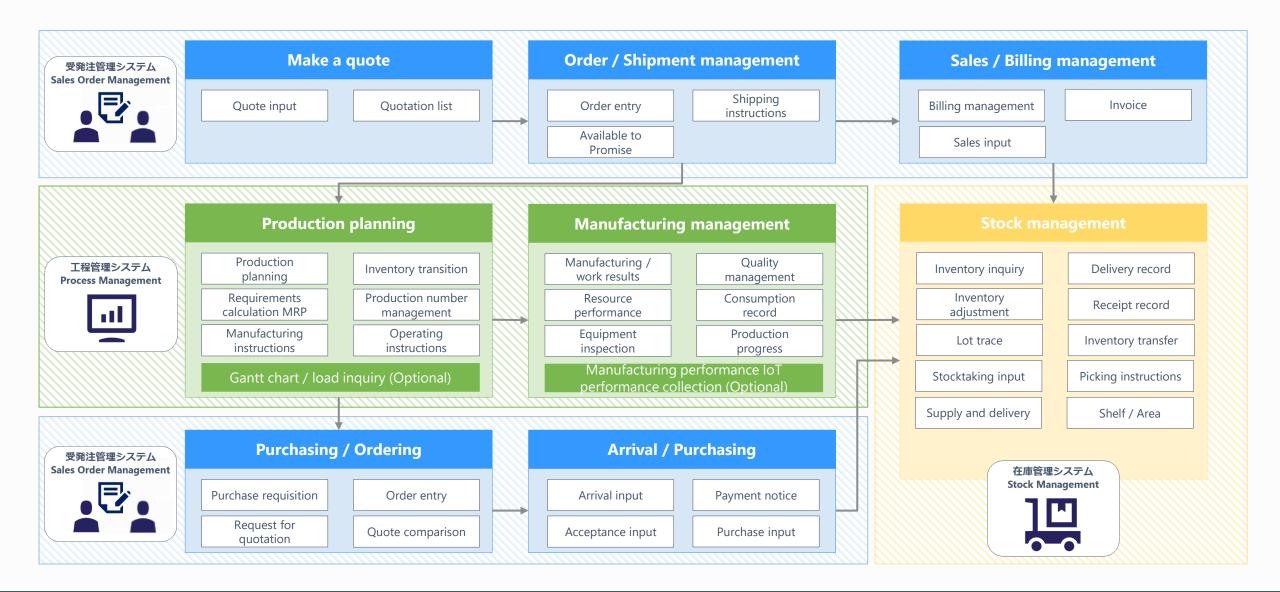
# Benefits of PEGASUS production control system

By utilizing the production control system, it is possible to solve various problems and obtain effects. It plays a very heavy role in achieving digitization.



### Function of Production Management System Pegasus

# PEGASUS Production control system configuration diagram



Process plan management	It is possible to create a plan for the contents of the process design simply by entering the delivery date and work-in-process date. It is also possible to realize planning using the Gantt chart as an optional function.	Component management BOM	It can easily manage component parts such as child part numbers that accompany the parent part number.
Centralized management of ordering	It can centrally manage a series of processes from quotation, ordering, acceptance inspection, shipping, and billing.	Out of stock prevention	Standard inventory is automatically calculated from the receipt / delivery status, and it is automatically detected to prevent shortages. Since the calculation includes the arrangement lead time, it is possible to detect shortages early.
Matter status management	It can check the status of the matter in a list. Since it has a search and filter function, it is possible to check by incorporating the matter for each status such as ordered and arranged.	Product man-hour analysis	Manufacturing analysis such as work man-hours and in- house production costs for each matter / product is possible. You can see at a glance the data you want to know, such as rankings by project.
Sales / Cost analysis	Sales / Cost analysis is possible. There is a function to narrow down by matter, order date, and billing date, so it can check the data you care about.	ERP cooperation	It is assumed to be automatically linked with the ERP system. The file formats are EXCEL, CSV, TXT, XML.
Cloud environment operation	We support various cloud environments such as AMAZON AWS and Google Cloud Platform.	Real-time management	By simply registering the work results for the process plan, it can see in real time from anywhere, such as which product is in the factory and which process is currently in progress, and the inventory status.

#### Matter status management

It can check the status of the matter in a list.

Since it has a search and filter function, it is possible to check by incorporating the matter for each status such as ordered and arranged.

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#### Out of stock prevention

Standard inventory is automatically calculated from the receipt / delivery status, and it is automatically detected to prevent shortages. Since the calculation includes the arrangement lead time, it is possible to detect shortages early.

PEGASUS									
				Pinch List					Versio
Schedule		Item code : 15530-6A	0-A000 💌 ~ 95701-06035-08 💌				Searc	ch : search item	
inbound		Out:Plan.Date 🗸 :	× Difference : = V						
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а этоск маладетент		Item ID	Item Name		Division	Stock		Total number of orders	Difference
Master Management	1	15530-6A0-A000	PIPE COMP, T/C OIL FEED	1		675	150		525
	2	15533-59B-0030	FILTER ASSY,T/C OIL FEED	1		3445	150		3295
User Name :	3	1553B-6A0-Z001	PIPE COMP, T/C OIL FEED	1		0	150		-150
ministrator	4	15540-59B-0003	PIPE COMP. T/C OIL RETURN	1		180	30		150
	5	15540-59B-0003(Sub)	PIPE COMP, T/C OIL RETURN	1		690	30		660
Logout	6	15540-6A0-A000	PIPE COMP, T/C OIL RETURN	1		469	120		349
73	7	15540-6A0-A000(Sub)	PIPE COMP, T/C OIL RETURN	1		617	120		497
<u>1</u>	8	15542-59B-0031	HOSE, T/C OIL RETURN	1		300	30		270
	9	15542-6A0-A010-M2	HOSE, T/C OIL RETURN	1		246	120		126
	10	15544-59B-0032	GSKT, T/C OIL RETURN PIPE	1		3561	150		3411
	n	16400-59B-0033	ELECTRONIC CONTL, THROTTLBODY	1		3520	240		3280
	12	17010-64D-P000	MANIFOLD ASSY, INT	1		120	30		90
	13	17100-5PA-0040	MANIFOLD COMP, INT	1		499	120		379
	14	17100-64A-0040	MANIFOLD COMP, INT	1		1208	90		1118
	15	1710A-5PA-Z003	MAINFOLD ASSY IN	1		0	120		-120
	16	1710A-64A-Z001	MANIFOLD ASSY, INT	1		0	90		-90
	17	1710C-64A-Z001	MANIFOLD ASSY, INT	1		0	30		-30
	18	17131-59B-0002	TUBE, PCV	1		0	120		-120
	19	17131-59B-0002(Sub)	TUBE, PCV	1		1188	120		1068
	20	17131-64A-A010	TUBE, PCV	1		388	120		268
	21	17131-64A-A010(Sub)	TUBE, PCV	1		607	120		487
	22	17132-59B-0001	STAY ASSY, IN MANIFOLD	1		3881	240		3641
	23	18900-5PA-A011-M3	TURBOCHARGER ASSY	1		210	30		180
	24	18900-64A-A010-M1	TURBOCHARGER ASSY	1		827	120		707
	25	1890A-5PA-Z001	TURBOCHARGER ASSY	1		0	30		-30

#### Component management BOM

It can easily manage component parts such as child part numbers that accompany the parent part number.

🛩 PEGASUS							Bill Of Materials								Version LD
🛗 Schedule			Product No : 1553A	-6A0-Z000 🔻 🕺 3618A-64A-2	.000 🔻						Search : Sear	ch	×		
ully Inbound			Section : All 🗸	evel : All 🗸							Se	arch	Clear		
📜 Outbound	CSV Import CSV Export Delete														
Stock Management		✓ entries													
🛢 Master Management	*	Product No	<ul> <li>Ref.Parts No</li> </ul>	Parts No		Sub	Parts Name	Qty Ratio	Level	Section ¢		Revision (	Period From 🕴	Period To	¢
	190	1553A-6A0-Z000		1553A-6A0-Z000	1	0	PIPE ASSY T/C OIL FEED		LO	Out	0	1	1900-01-01 00:00:00	2999-12-31 23:59:59	· •
User Name : Administrator	191	1553A-6A0-Z000		1553A-6A0-Z000	1	0	PIPE ASSY T/C OIL FEED		LI	Out	-3	1	1900-01-01 00:00:00	2999-12-31 23:59:59	• •
ပ် Logout	192	1553A-6A0-Z000	1553A-6A0-Z000	15530-6A0-A000	0	0	PIPE COMP, T/C OIL FEED	1:1	L2	In	-4	1	1900-01-01 00:00:00	2999-12-31 23:59:59	• :
疍	193	1553A-6A0-Z000	1553A-6A0-Z000	15533-59B-0030	o	0	FILTER ASSY,T/C OIL FEED	ы	L2	In	-4	1	1900-01-01 00:00:00	2999-12-31 23:59:59	, <b>:</b>
	194	1553B-6A0-Z001		1553B-6A0-Z001	1	0	PIPE ASSY T/C OIL FEED		LO	Out	0	1	1900-01-01 00:00:00	2999-12-31 23:59:59	· :
	195	1553B-6A0-Z001		1553B-6A0-Z001	1	0	PIPE ASSY T/C OIL FEED		LI	Out	-3	1	1900-01-01 00:00:00	2999-12-31 23:59:59	•
	196	1553B-6A0-Z001	1553B-6A0-Z001	15530-6A0-A000	o	0	PIPE COMP, T/C OIL FEED	ы	L2	In	-4	1	1900-01-01 00:00:00	2999-12-31 23:59:59	· :
	197	1553B-6A0-Z001	1553B-6A0-Z001	15533-59B-0030	0	0	FILTER ASSY,T/C OIL FEED	ы	L2	In	-4	1	1900-01-01 00:00:00	2999-12-31 23:59:59	· :
	205	1710A-5PA-Z003		1710A-5PA-Z003	1	0	MAINFOLD ASSY IN		LO	Out	0	1	1900-01-01 00:00:00	2999-12-31 23:59:59	· :
	206	1710A-5PA-Z003		1710A-5PA-Z003	1	0	MAINFOLD ASSY IN		u	Out	-3	1	1900-01-01 00:00:00	2999-12-31 23:59:59	· •
	#	Product No	Ref.Parts No	Parts No	Sec	Sub	Parts Name	Qty Ratio	Level	Section	Delivery date count	Revision	Period From	Period To	
	Showing	1 to 10 of 406 entries									First Previou	us 1 2	345.	41 Next	Last
	4														Þ

PC screen

#### ERP cooperation

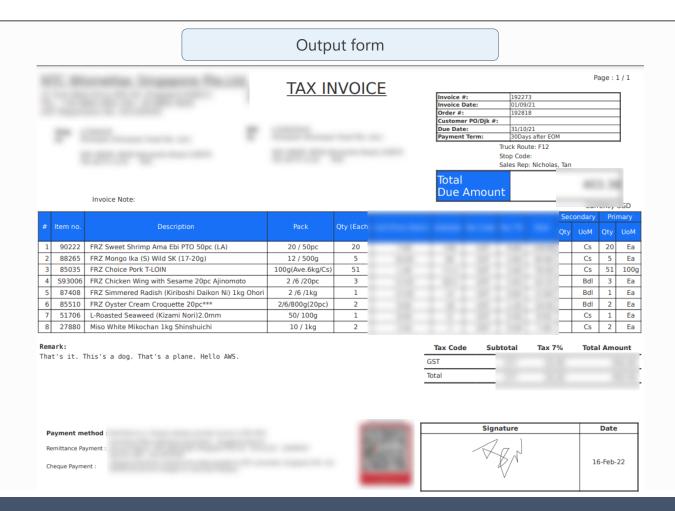
It is assumed to be automatically linked with the ERP system. The file formats are EXCEL, CSV, TXT, XML.

🛩 PEGASUS							Invoice list							
H Invoice				Invoice	date : select a	a date 🕺 ~ s	elect a date × Group : All 🗸	Route : All 🔻	Type : All	✓ St	atus : All	•		
Master Management					Invoice no :	search invoice no	× Customer : All	▼ Se	arch	Clear	D\L PDF			
<b>User Name :</b> Administrator	Excel	Output PDF C	Dutput Show	10 🗸 entrie	s			Im	port	Confirm	Delete			
එ Logout	*	Invoice date	Invoice no	IV type	Order no	Customer code	Customer name	Group	Route 🌢	Type 💧	Status	Short ship	Photo 🏾	
疍	1	01/09/21	192273	AR INV	192818	LC000029	Rear Street Softward	F	F12	IV Soft	• COMPLETED 21 Mar 2022 18:35:26	• SHORT SHIP 21 Mar 2022 18:35:26	6	:
	3	01/09/21	192315	AR INV	192860	LC000046		В	B01	IV Soft	UNDELIVERED 03 Apr 2022 12:02:49		1	:
	5	01/09/21	5800	AR Credit	5800	LC000059		-		IV Soft	• COMPLETED • 06 Feb 2022 09:12:15			:
	7	01/09/21	192357	AR INV	192902	LC000061		в	B22	IV Soft	• UNDELIVERED 21 Feb 2022 19:21:02	• SHORT SHIP 21 Feb 2022 19:21:02		÷
	9	01/09/21	192294	AR INV	192839	LC000067		с	C15	IV Soft	COMPLETED 08 Mar 2022 10:08:12		1	:
	n	01/09/21	192346	AR INV	192891	LC000110		G	G04	IV Soft	• COMPLETED • 25 Feb 2022 10:53:40			:
	13	01/09/21	192326	AR INV	192871	LC000128		с	C02	IV Soft	• COMPLETED 10 Feb 2022 18:26:18			:
	15	01/09/21	192365	AR INV	192910	LC000131		A	AOI	IV Soft	• COMPLETED 10 Feb 2022 18:25:46			:
	17	01/09/21	192201	AR INV	192746	LC000140		D	DIO	IV Soft	UNDELIVERED 01 Feb 2022 09:07:27	•		:
	19	01/09/21	192340	AR INV	192885	LC000181		G	G09	IV Soft	• COMPLETED 25 Feb 2022 10:44:59	-		÷
		Invoice date	Invoice no	IV type	Order	Customer code	Customer name	Group	Route	Type	Status	Short ship	Photo	

PC screen

#### Invoice issuance

By inputting the necessary data to the form from ERP, you can output forms in various formats such as "invoice", "Delivery Order", and "Delivery Note". Since it supports the sign form of the image sign, various sign methods can be adopted depending on the situation.



Case study of introduction effect

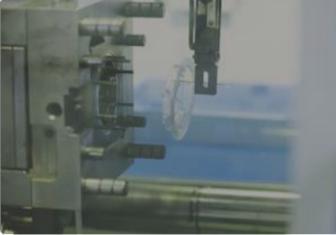
# Case Study – Pegasus Production management system -

The time and stress required to visualize and quantify the manufacturing progress and confirm it have been greatly reduced.

Thai car battery case molding company. By digitizing the management of work plans on the whiteboard, the time required to confirm manufacturing progress has been reduced by 70%.



Because the work was highly personal, the site was confused by the sudden leave of the person in charge.
Because of the management by the whiteboard, there were many mistakes in writing, writing, and reading.
The daily manufacturing progress was not updated in a timely manner, resulting in a black box, and the progress could not be grasped.



Solution	
Solution	

Effect

- All business operations related to manufacturing can now be realized within the system.
   All the forms used in business have been converted into data so that they can be converted to PDF from the system.
   When there is progress in the manufacturing schedule, the progress is managed by changing the status.
   Ind
   By using the system, we were able to standardize the work, which made it possible for employees to share
- By converting business data, we were able to reduce human error and man-hours.
- Since the status can be monitored in real time, the manufacturing status can be visualized.

Country	Thailand					
Scale	51-500 peoples					
Industry	Plastic molding company					
Purpose / effect	Reduction of work man-hours and improvement of manufacturing efficiency					

# Appendix

# System configuration



No	Item	Recommended specifications and models
1	PC Server	OS: Windows Server 2019R2 Standard / Memory: 8GB or more / Hard disk: Free space 50GB or more / Display: Resolution 1366 x 768 or more / Browser: Google Chrome (latest Ver) * Server machine with recommended model specifications or more
2	Client PC	OS: Windows 8.1 / 10 / 11 / Memory: 4GB or more / Display: Resolution 1366 x 768 or more Browser: Google Chrome (latest version) * PC machine with recommended model specifications or higher
3	Handy terminal	KEYENCE BT series (Windows OS type, Android OS type)
4	Access point	IEEE802.11a/b/g/n
5	Label printer	WIFI / Bluetooth compatible model/Material: Art Permanent/Size: 50 x 100 mm.
6	UPS	UPS shutdown signal type

# Maintenance

	#	Software maintenance		Standard / Option		
	1	Operation support / recovery support	We will open a support window and provide operational support by phone and email, and recovery support in the event of a software failure.	Standard*1		
2	2	Upgraded software provided	We will provide an upgraded version when the software functions are improved. We provide the latest software compatible with the latest OS free of charge. It can reduce your life cycle cost by eliminating the need to purchase software when updating the server.	Standard*1		
	#	Software re-setup				
	1	Software re-setup	If it need to re-set up the software after repairing a server failure Perform restoration work. (Repair of inventory data is not included in software re-setup)	Standard*1		
			* 1) Service is provided at the system purchase fee in basis from the second year onwards	the first year of the contract. Contract on a yearly		

# Schedule | Go live schedule

1. Current situation analysis	We will inspection the current business and the system being used, confirm the requirements, and analyze the customer's current situation. And will make an estimate based on customer requirements.	Within sales
2. Requirement definition	Detailed requirement definition will be performed based on the analysis result. Check the detailed requirements so that the system can be implemented in a manner that matches actual operation.	1-4 weeks
3. Design	While a process meeting, we will perform basic design, detailed design, and preparation for transfer based on the requirements.	1-3 weeks
4. Development / Test	Perform the test that fits with customer work and start the test. We will consider a transfer every method for let smooth working process.	1-20 weeks
5. Introduction support	We will have an operation training to introduce the system that is currently being used or work in parallel with the work, and after confirming the usability, etc., And the final acceptance will be continue to process.	1 week
6. Production operation	When start operation. We will provide a long-term support for safe and comfortable system by providing operation maintenance support, information provision, and revision edition.	Min : 4 weeks Max : 28 weeks