

PEGASUS SEWING MACHINE MFG. CO., LTD.

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Feature of System

•The measure of progress for each process can be monitored in real time with Wireless switches (counter switches), and the delay in production line can be grasped immediately.

The maximum interval for receivable signal between wireless switches and receiver is 1 km.

- *Subject to the environment or obstructions to install.
- •One software can be workable with maximum 160 sets of wireless switches.
- *An in-company network is used and progress can be checked also away from production lines, such as an office.
- •Wireless switches can accumulate the interval (pitch) of the button which operators push, and it deduces actual pitch time.
- •Output prospect function can deduce daily output within working hours, and we can realize the delay points in advance.
- •In order to achieve target quantity, closing time prospection function and overtime work prospection function can deduce the required working hours, it is easy to make rescheduling and delivery date management.
- Variety of Progress management

a. Per operators monitoring : Monitor the details of each operation (Output, closing time, overtime work, etc.)

b. Per production monitoring: Monitor the progress each 30 min or 1 hour per production line.

c. Total monitoring : Monitor the wireless switches (all operations) all together.

Summary of System

1. Monitoring/OP

Manage per operations (per operators), and monitor the present pitch time, output and delay of operation.

Although pitch time was conventionally measured using the stopwatch, but in WPC, wireless switch records the interval (pitch) of the button which an operator pushes, and it deduces actual pitch time.

Since all the data of pitch time is stored, these data can be as property and is useful for discovery of a future improvement points, and a line design (layout).

By grasping the realistic pitch time of the company, it can realize to shorten the time of from the putting the products into production line to manufacture the production smoothly, and this leads to a cost cut.

2. Monitoring/LINE

It is possible to monitor per line as each 30 min or 1 hour. Thanks to this function, it is easy to find out the delay operation immediately.

In addition, it has a function to display the graph of progress each 30 min or 1 hour. Thanks to this function, it is possible to grasp when delay has started as well as searching for the source of delay.

3. Monitoring/A OP

All wireless switches disposed at each operation can be monitored. In addition, remaining battery power also can be monitored.

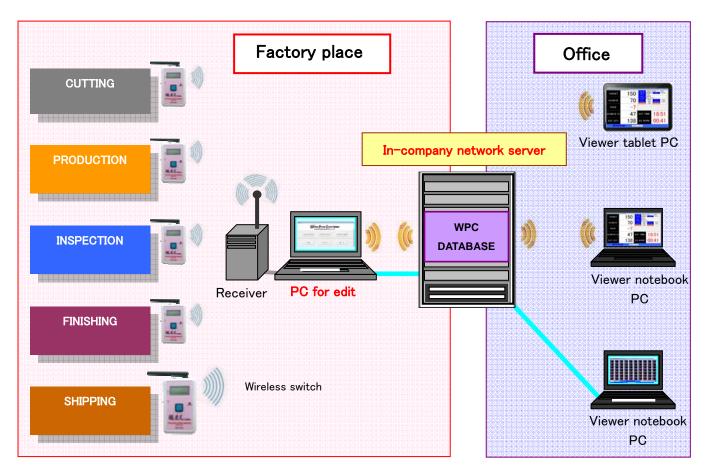




Flow of System

PC which has connection with receiver can manage all data from wireless switches.

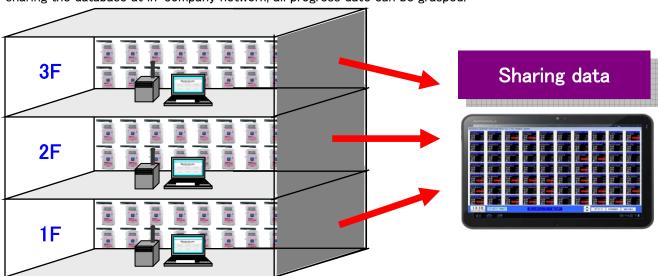
An in-company network (LAN or Wi-Fi) is used and all data can be monitored away from production lines, such as an office.



Set up System

One software can be workable maximum 160 sets of wireless switches. In the case of disposing wireless switches at different floor, the signal from wireless switches is not achievable. Due to this reason, software is requested at each floor.

By sharing the database at in-company network, all progress date can be grasped.





~ Wireless management makes revolution of "Progress"

POINT 1: "OP (Monitoring/OP)" Monitoring per operations and operators

Monitor the present pitch time, output and delay of operation per operations and operators.
 By checking the flow of the order of production items, stagnation of item flow can be distinguished easily, and make the points clear to be improved.

RIAL LINE NO. ITEM NO. / ITEM NAME	WORK TM	REST	1 RES	ST 2	REST 3	REST 4	TAG/PT	BUNDLE	R .CNT F	R.REMAIN	FINAL	
00001 LineA 182010	9:00	10:0	0 12	:00:	15:00		150	1	1	3:00:00	0F72	·
Dress shirt	18:10	10:1		:50	15:10		192.0					
			CHIEVE							Lore	Leve I	-
M OPERATION Attach bottom band	IAC				YAMADA		OP			8:58	END	≐
Attach bottom band 2 Attach left placket		204.2 190.1	72 77	-5	BUZUKI					8:58		
Attach tape shoulder to shoulder		176.4	84		AOKI					8:55		
Attach lining		175.0	84		AOYAMA					8:58		
Bartack		175.0	84		AOTA					8:58		
6 Bartack leg and waist		168.4	88		YARI					8:55		
Close		213.9	69		NOU					8:57		
Real pitch time		211.7	70		JNO					8:56		
Join Real pitch time		162.2	91		KOIKE					8:56		
) Sleeve seam		242.0	61		YOSIDA					8:56		
Attach elastic leg		183.8	80	3	TANAKA					8:58	3	
? Turn collar point		175.1	85		YAMASITA	4				8:55		
Attach quality label		212.2	69		BATOU					8:58		
l Bartack		222.1	67		ONUKA					8:55		
Cover seam sleeve		234.3	63		KIRIHARA					8:57		
Fuse interlining		161.7	92		ENDOU					8:55		
Left join shoulder seam		221.8	66		OOTA					8:58		
Sew :		166.5	89		MORIWAK					8:56		
Attac Achievement		160.0	90		MORIYAM	Д				9:02		
Bind Bind		179.3	83		HUJITA _					8:55	5	
Close leg cuff		196.8	75		SAITOU	EGASUS SENING H	ACHINE MFG. CO., LTD	CSAKA, JAPAN			li la m	
Fold sleeve facing		162.2	91		FUJIWAR	COOCCOOT Live-	A 182010	ITEM YAME	035 Julia should	CRERAT	ION	
Fuse interlining to top collar		169.7	87		NAGASA	•	Doess stirt		The second second			
Left join shoulder seam		188.5	78		NAGAOK							
Sleeve to side seam		236.1	62		SUDOU				Table Carrier			
Front		158.7	93 60		OMURA							
7 Join Progress		247.0		▶18	KOBAYA							
a presse		204.2	72		OKADA			1				
Bartack leg and waist		232.0	60 76		TAGUCH SA I KI	n n		1 .				
Cover seam sleeve		195.0	/6 89		YAMAOK							
Fold cuff Left join shoulder seam		165.8 175.0	89 84		YAMAGU							
2 Lett join snoulder seam 3 Sleeve seam		175.0	84 83	- /	HAMADA							
Hem pocket bags		211.7	70		MATSUS			Г				
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						14:06						

Various "Prospection" function like "closing time", "Output" and "Overtime work".
Individually each operation which is allocated wireless switch can be checked details, and prospect the daily output within working hours by setting in advance. In addition, it prospects the necessary overtime work and closing time in order to achieve the target quantity.

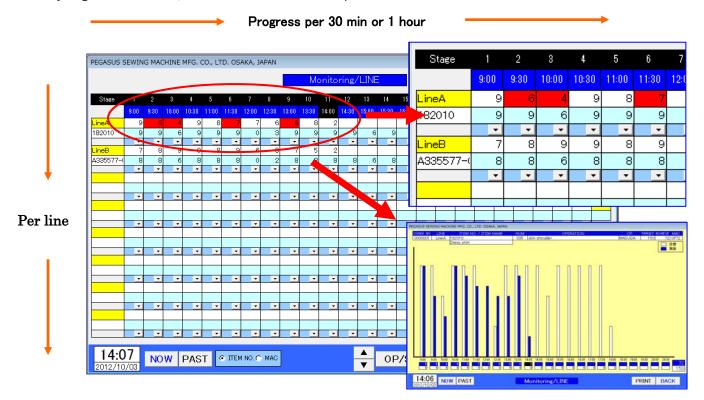
PEGASUS SEWING MACHINE MFG. CO., LTD. OSAKA, JAPAN							
	4 = 0	DATE/TIME 2012/		0/03	14:01		
TARGET	150	NUMBERING	0000001	MAC	0F72		
	100	LINE NO. Line A					
A OLUE) /E	70	SET. PT 192.0		ACT PT	210.0		
ACHIEVE	/()	RUN TIME	4:05	REMAIN TIME	3:59		
	, 0	START TIME	8:55	END TIME	0.00		
			0.00				
PACE	_7						
IAOL							
	17			10			
ACHIEVE (%)	47	EST. TIME		18:51			
	1 /						
EST. QTY	138	EX. WORK		00:41			
LOI. QII	100	LA. W		UU,	, '+		
Monitoring/LINE PRINT BACK							



POINT 2: "Monitoring/LINE" Monitoring of production line per 30 min or 1 hour

 Based on the target of daily output, target quantity per 30 min or 1 hour can be calculated per production line automatically, and latest progress can be checked.

Since the progress can be checked per 30 min or 1 hour by the graph as well, it catches the timing from which delay began in an instant, and an immediate action is possible for it.



POINT 3: "Monitoring/A OP" All operations can be "Visualization".

Display all operators that are operating, and delay operator is with red mark.
 In addition, details of each operations can be checked.





Commodity composition

Full package of the WPC System components

Base unit <WPCO-001> : 1 set
Communication cable <RS422> : 1 set
Barcode scanner <PS-800-P> : 1 set
Producer function software <Ver.107PUJ> : 1 license
DVD-ROM for installation : 1 set
SD card key for authentication : 1 set



Barcode scanner

Option

- Viewer function software <Ver. 107VUJ>
- Wireless switch <WPCK-002>
- Extension switch cable <WPCK-003>



Left: Extension switch cord Right: Wireless switch

Specification of each units

Base unit (Main receiver) <WPCO-001>
Main power supply 100V ∼ 240V

Communication cable <RS422>

Length of cable: 3m

Wireless switch <WPCK-002>

Main power supply 2 x size AA battery, Alkaline battery or nickel-metal-hydride rechargeable battery

* Battery life may around 2 month

(Operating hours: 8hours / Pushing switch: 3600 times/day (8sec/each))

* A battery life may change with operating conditions.

Extension switch cable <WPCK-003>

Length of extension: 3m

Personal computer speck and environment

■ Recommended hardware requirements. * Check the following items for the personal computer.

Corresponding OS : Windows XP / Windows7 (32bit, 64bit)

• CPU : Dual-Core / Core i3

HDD : Built-in HDD more than 50GB
Memory : 512MB ~ 1GB / 4GB ~ 8GB

Chipset : 1024 x 768 • 1280 x 1024 • 1280 x 800 • 1366 x 768
 Microsoft Office : Version 2000 • 2003 • 2007 • 2010 either one 《Essential》
 Network server : in-company network LAN with or without cable 《Essential》

* The WPC system can be operated by using other hardware with performance below requirements in description above, but some trouble may occur according to the condition of personal computer.

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