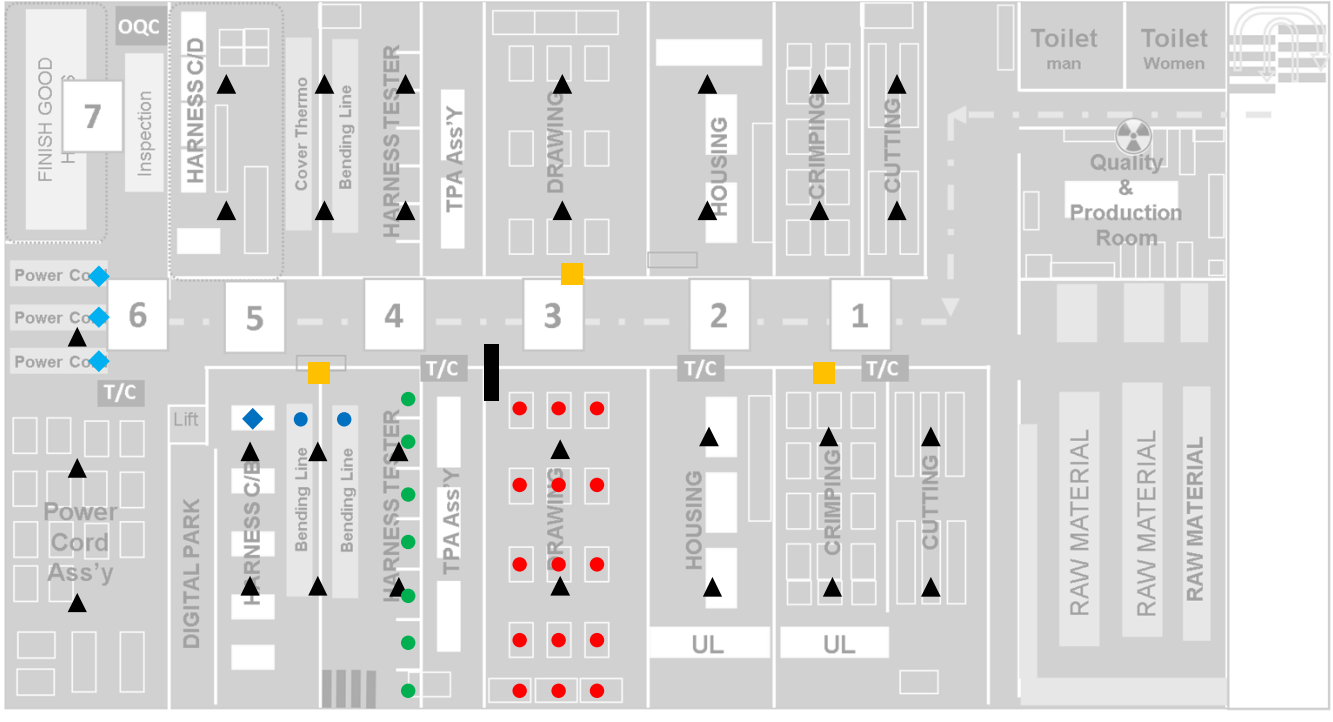
PT.DSEC SMART SYSTEM

2021. 11. 8

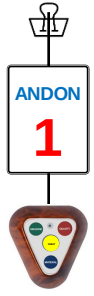
INTERNEX

ICT Development Solutions | www.internex.co.id

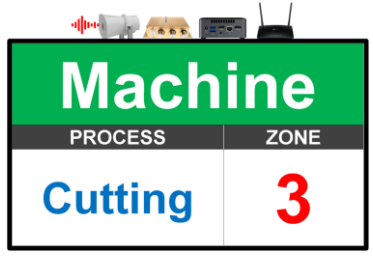
DSEC SMART SYSTEM LAYOUT



▲BUTTON



ANDON DISPLAY



PRODUCTION STATUS

MARK	PROCESS	QTY
■	Production Status	3
▬	Andon Display	1
▲	Andon Button	31
●	Drawing Display	15
●	Injection Display	7
●	Bending Display	2
◆	Harness Display	1
◆	Power Cord Display	3

◆ POWER CORD

◆ HARNESS

● BENDING

● INJECTION

● DRAWING

DRAWING WORKER DISPLAY

1. Mini PC, WIFI.
2. Linux OS.
3. Local Database.
4. SPK Information S/W.
5. Production Result S/W.
6. Work Instructions
7. Server Interface
8. Network Settings.
9. Keypad Input.

WIFI

SERVER DATABASE

LAN

OFFICE MONITORING

HDMI

KEYPAD

PUTRI

DRAWING PRODUCTION

2021-11-8 10:00:00

Date | 2021-11-8 ▼ | Today

DB Local TCP

NO	NAME	PART NO	LOT QTY	RESULT	BALANCE	%	START	END
1	PUTRI	E0000000062	50	50	0	100%	07:00	08:00
2	PUTRI	E0000000063	400	100	-300	25%	08:00	
3	PUTRI	E0000000064	200					
4	PUTRI	E0000000065	30					
5								

PART NO : E0000000063

Work Instructions

LOT QTY	RESULT	BALANCE	%	TODAY TOTAL
400	100	-300	25%	150

TIME	07 30	08 00	08 30	09 00	09 30	10 00	10 30	11 00	11 30	12 00	12 30	13 00	13 30	14 00	14 30	15 00	15 30	16 00	16 30	17 00	17 30	18 00
30min	20	30	60	40	0																	
TOTAL	20	30	110	150	150																	

KEYPAD	Home	Date (7)	SPK(8)	WORK-I(9)	+ (enter)	-	Restart(4)	Down(/)	OFF(*)

INSPECTION WORKER DISPLAY

1. Mini PC, WIFI.
2. Data capture device
3. Linux OS.
4. Local Database.
5. SPK Information S/W.
6. Production Result S/W.
7. Data capture firmware S/W
8. Work Instructions
9. Server Interface
10. Network Settings.
11. Keypad Input.

WIFI

SERVER DATABASE

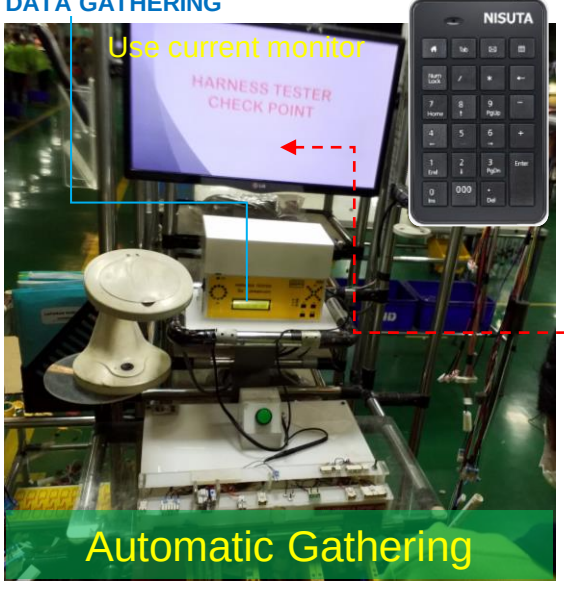
LAN

OFFICE MONITORING

HDMI

KEYPAD

DATA GATHERING



JULIATI INSPECTION PRODUCTION

2021-11-8 10:00:00

Date | 2021-11-8 ▼ | Today

DB Local TCP

NO	NAME	PART NO	LOT QTY	RESULT	BALANCE	%	START	END
1	JULIATI	E0000000062	50	50	0	100%	07:00	08:00
2	JULIATI	E0000000063	400	100	-300	25%	08:00	
3	JULIATI	E0000000064	200					
4	JULIATI	E0000000065	30					
5								

PART NO : E0000000063 | Work Instructions

LOT QTY	RESULT	BALANCE	%	TODAY TOTAL
400	100	-300	25%	150

TIME	07 30	08 00	08 30	09 00	09 30	10 00	10 30	11 00	11 30	12 00	12 30	13 00	13 30	14 00	14 30	15 00	15 30	16 00	16 30	17 00	17 30	18 00
30min	20	30	60	40	0																	
TOTAL	20	30	110	150	150																	

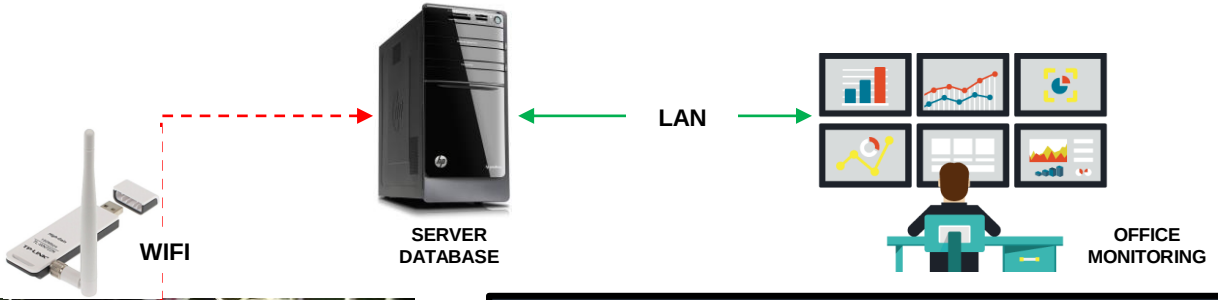
KEYPAD	Home	Date (7)	SPK(8)	WORK-I(9)	+ (enter)	-	Restart(4)	Down(/)	OFF(*)

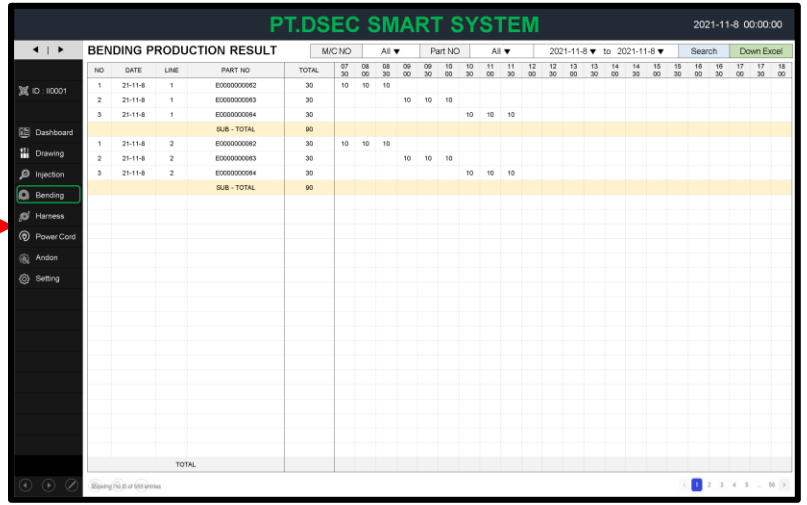
▣ BENDING WORKER DISPLAY

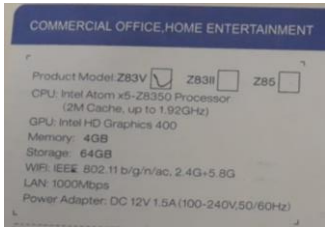
BARCODE DATA GATHERING

Software Development

1. Current system analysis.
2. Database program development.
3. Production result program development
4. Server Interface Development.
5. Network Settings.
6. USB WIFI & LAN







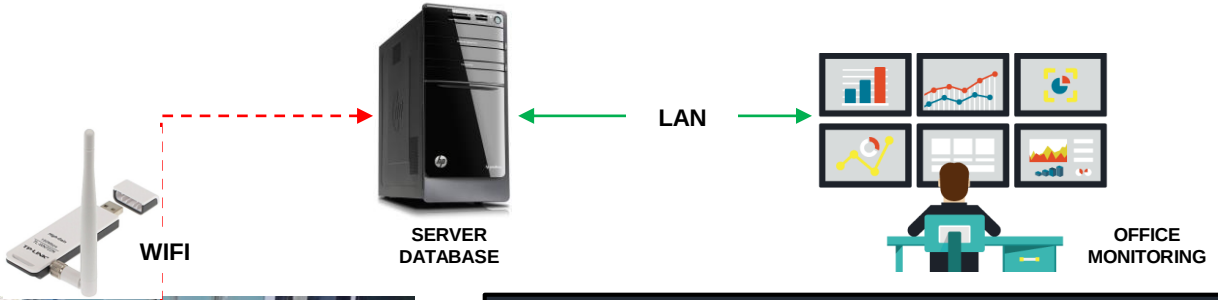
- Current MiniPC Specifications
- Hardware usage check
- Same barcode scanning program

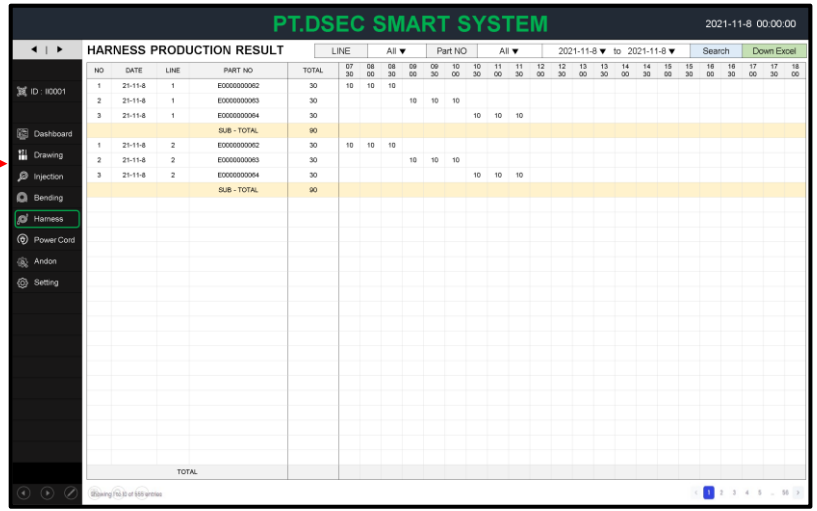
HARNESS ASSY WORKER DISPLAY

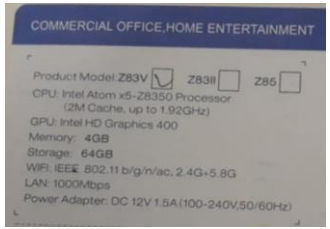
BARCODE DATA GATHERING

Software Development

1. Current system analysis.
2. Database program development.
3. Production result program development
4. Server Interface Development.
5. Network Settings.
6. USB WIFI & LAN







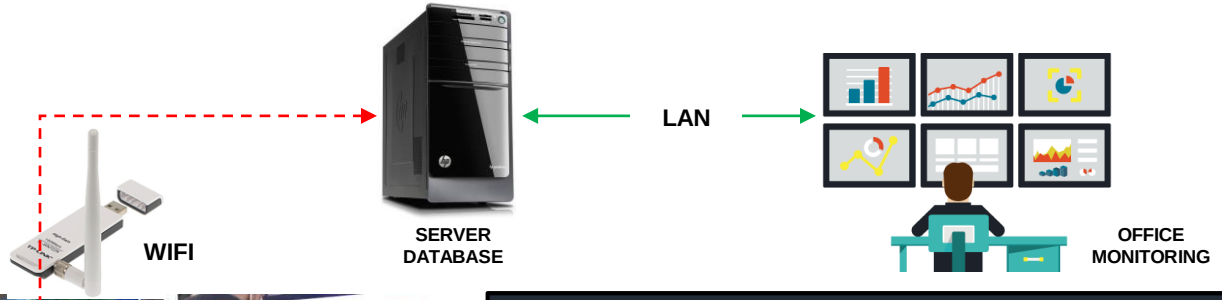
- Current MiniPC Specifications
- Hardware usage check
- Same barcode scanning program

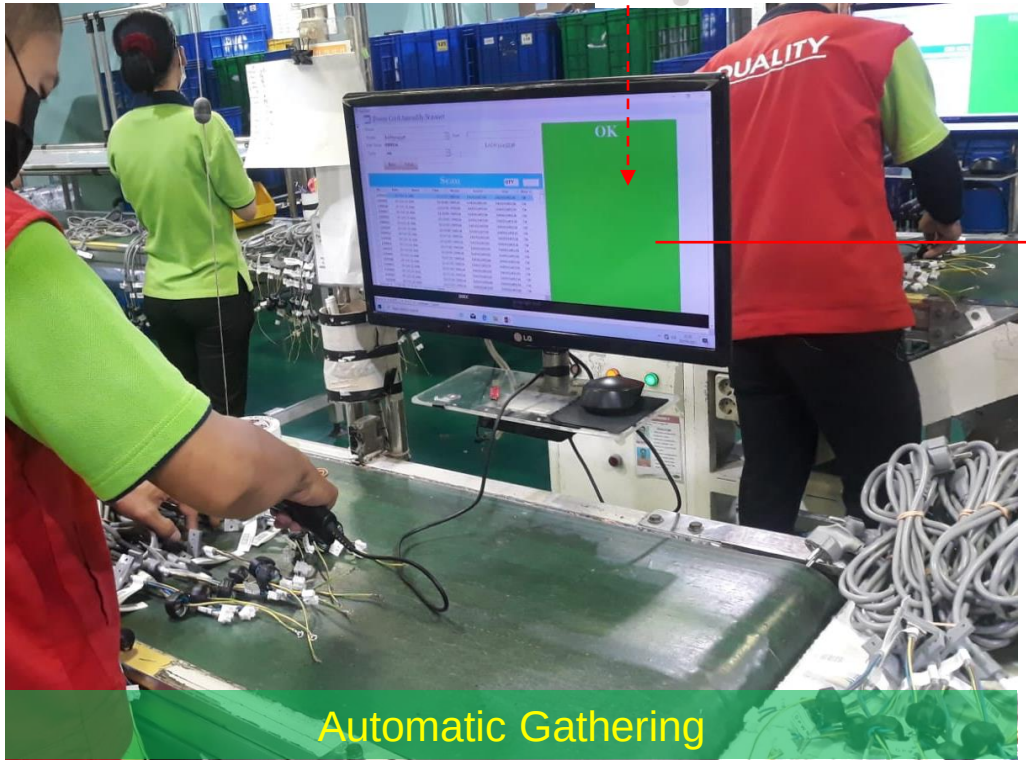
▣ POWER CORD WORKER DISPLAY

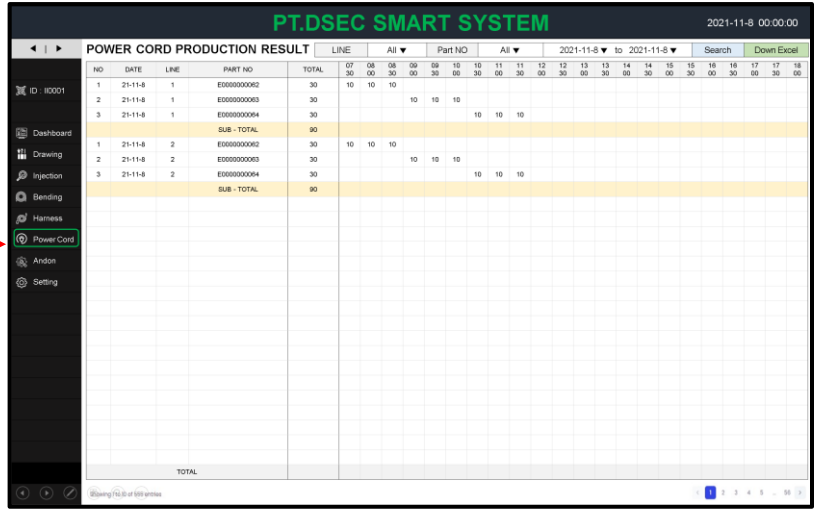
BARCODE DATA GATHERING

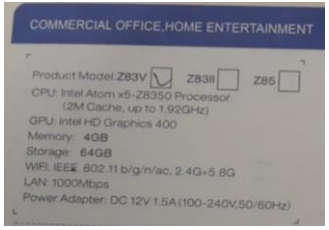
Software Development

1. Current system analysis.
2. Database program development.
3. Production result program development
4. Server Interface Development.
5. Network Settings.
6. USB WIFI & LAN





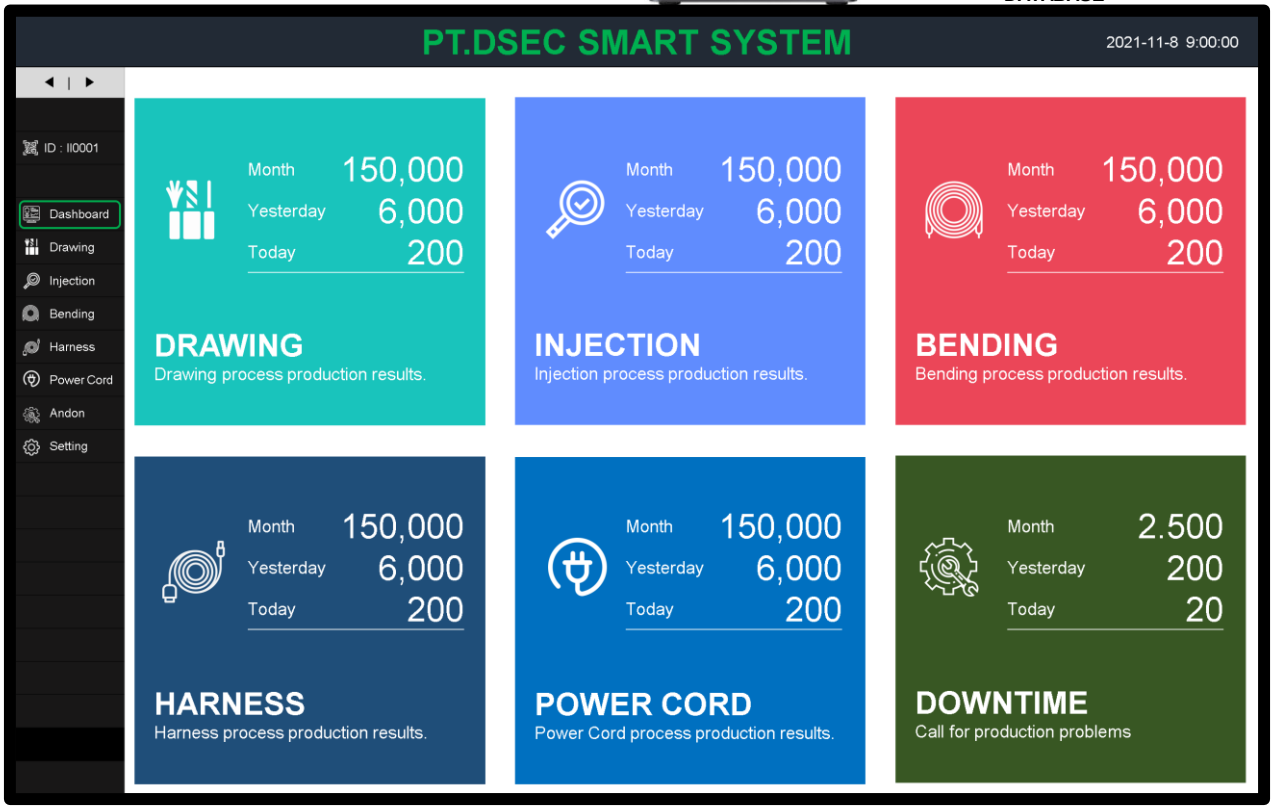




- Current MiniPC Specifications
- Hardware usage check
- Same barcode scanning program

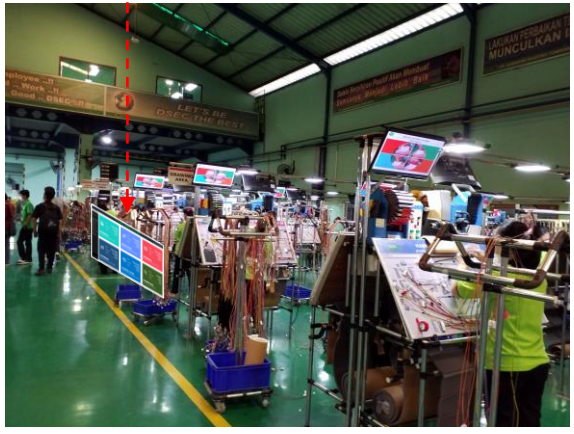
PRODUCTION STATUS DISPLAY

Production results : real-time monitoring Line



Monitoring system

1. Mini PC i5 RAM 4GB Win10, Wireless Mouse and Keyboard.
2. Using a TV or monitor.
3. Computer table
4. Network Settings.
5. LAN



ANDON SYSTEM TV55”

Quality	
PROCESS	ZONE
Housing	5

HELP	
PROCESS	ZONE
Crimping	1

Machine	
PROCESS	ZONE
Cutting	3

Material	
PROCESS	ZONE
Injection	1

PT.DSEC	ANDON	PROGRESS	10:00:00
PRO	ZONE	CALL	STATE	TIME
CUT	3	Machine	Call	0:12
CRP	1	Help	Call	0:32
HUS	5	Quality	Arrive	0:10
INJ	1	Material	Arrive	0:02

PT.DSEC	ANDON	PROGRESS	10:00:00
ANDON NORMAL			

ANDON 1

wireless

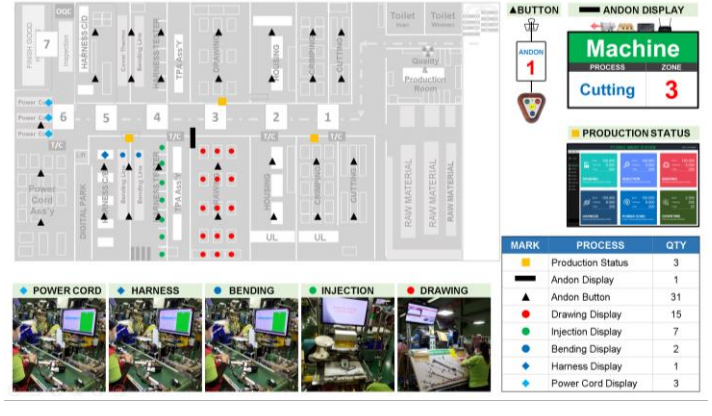
Machine	
PROCESS	ZONE
Cutting	3

LAN

SERVER DATABASE

LAN

OFFICE MONITORING

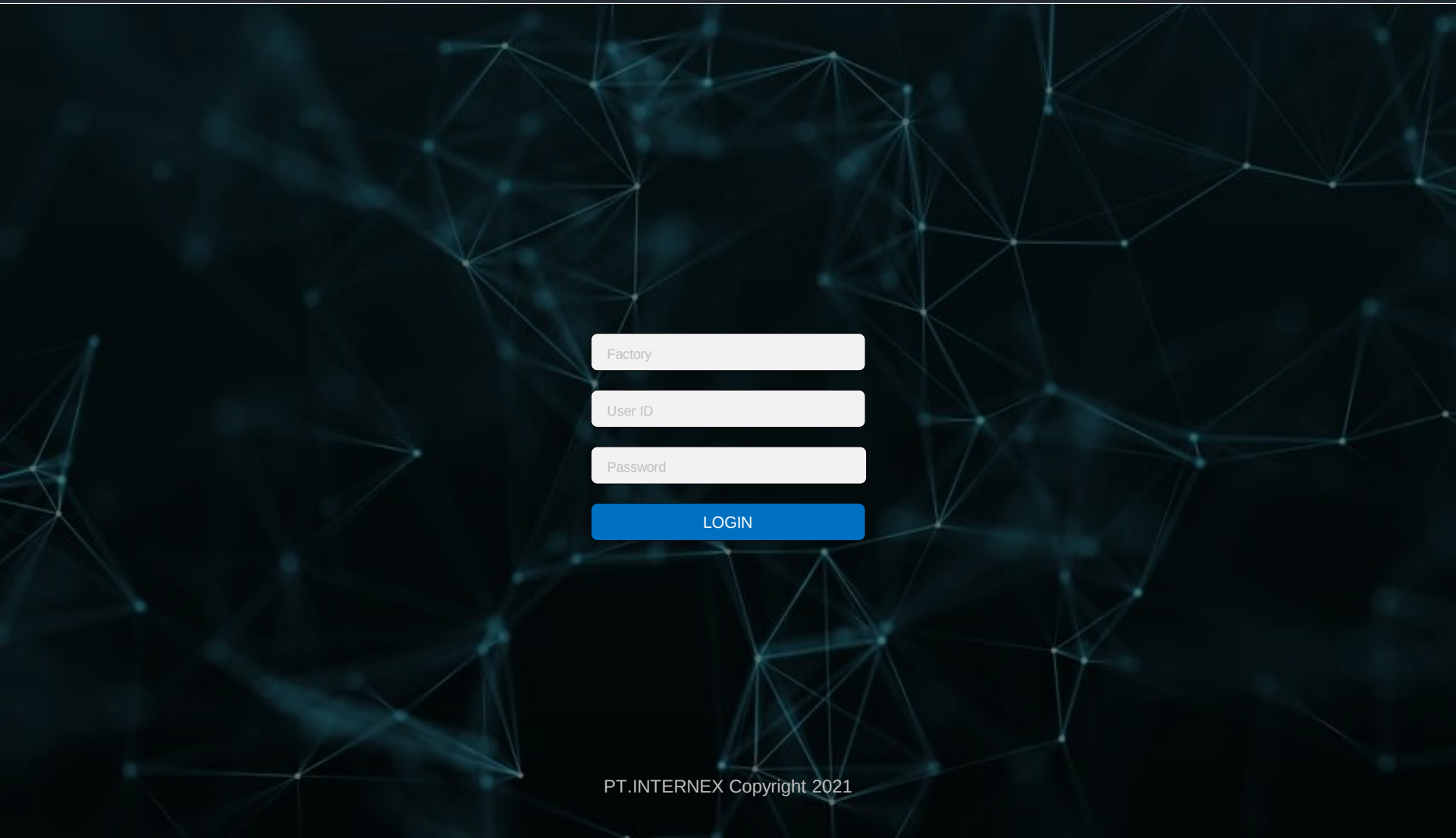


MARK	PROCESS	QTY
	Production Status	3
	Andon Display	1
	Andon Button	31
	Drawing Display	15
	Injection Display	7
	Bending Display	2
	Harness Display	1
	Power Cord Display	3

Andon System

1. TV 55-inch (2 units) double-sided display
2. TV Double Sided Bracket Stand, 2.5M
3. Mini PC i5 RAM 4GB Win10, Wireless Mouse and Keyboard
4. Andon data receiver
5. TOA-ZH615R, amplifier SON8251B (alarm)
6. Access point router
7. Andon calling program development (4 types)
8. Andon Progress Program Development (2 types)
9. Andon call 4 types of melody program development
10. Server/production system and interface development
11. Network settings
12. Andon wireless button

PT.DSEC SMART SYSTEM



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PT.DSEC SMART SYSTEM

2021-11-8 9:00:00

ID : II0001

- Dashboard
- Drawing
- Injection
- Bending
- Harness
- Power Cord
- Andon
- Setting

DRAWING

Drawing process production results.

Month	150,000
Yesterday	6,000
Today	200

INJECTION

Injection process production results.

Month	150,000
Yesterday	6,000
Today	200

BENDING

Bending process production results.

Month	150,000
Yesterday	6,000
Today	200

HARNESS

Harness process production results.

Month	150,000
Yesterday	6,000
Today	200

POWER CORD

Power Cord process production results.

Month	150,000
Yesterday	6,000
Today	200

DOWNTIME

Call for production problems

Month	2.500
Yesterday	200
Today	20

PT.DSEC SMART SYSTEM

2021-11-8 00:00:00

ID : II0001

- Dashboard
- Drawing
- Injection
- Bending
- Harness
- Power Cord
- Andon
- Setting

TOTAL PRODUCTION RESULT

Part NO | All ▼ | 2021-11 ▼ | Search | Down Excel

NO	PART NO	LOT QTY	TOTAL	%	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1																																			
2																																			
TOTAL																																			

Showing 1 to 10 of 555 entries

‹ 1 2 3 4 5 .. 56 ›

◀ | ▶

ID : II0001

Dashboard
Drawing
Injection
Bending
Harness
Power Cord
Andon
Setting

DRAWING PRODUCTION RESULT

NAME | All ▼ | Part NO | All ▼ | 2021-11-8 ▼ to 2021-11-8 ▼ | Search | Down Excel

NO	DATE	NAME	PART NO	TOTAL	07 30	08 00	08 30	09 00	09 30	10 00	10 30	11 00	11 30	12 00	12 30	13 00	13 30	14 00	14 30	15 00	15 30	16 00	16 30	17 00	17 30	18 00
1	21-11-8	PUTRI	E0000000062	30	10	10	10																			
2	21-11-8	PUTRI	E0000000063	30				10	10	10																
3	21-11-8	PUTRI	E0000000064	30							10	10	10													
			SUB - TOTAL	90																						
1	21-11-8	YULI	E0000000062	30	10	10	10																			
2	21-11-8	YULI	E0000000063	30				10	10	10																
3	21-11-8	YULI	E0000000064	30							10	10	10													
			SUB - TOTAL	90																						
TOTAL																										

Showing 1 to 10 of 555 entries

‹ 1 2 3 4 5 .. 56 ›

◀ | ▶

ID : II0001

Dashboard
Drawing
Injection
Bending
Harness
Power Cord
Andon
Setting

INJECTION PRODUCTION RESULT

NAME | All ▼ | Part NO | All ▼ | 2021-11-8 ▼ to 2021-11-8 ▼ | Search | Down Excel

NO	DATE	NAME	PART NO	TOTAL	07 30	08 00	08 30	09 00	09 30	10 00	10 30	11 00	11 30	12 00	12 30	13 00	13 30	14 00	14 30	15 00	15 30	16 00	16 30	17 00	17 30	18 00
1	21-11-8	JULIATI	E0000000062	30	10	10	10																			
2	21-11-8	JULIATI	E0000000063	30				10	10	10																
3	21-11-8	JULIATI	E0000000064	30							10	10	10													
			SUB - TOTAL	90																						
1	21-11-8	RIA	E0000000062	30	10	10	10																			
2	21-11-8	RIA	E0000000063	30				10	10	10																
3	21-11-8	RIA	E0000000064	30							10	10	10													
			SUB - TOTAL	90																						
TOTAL																										

Showing 1 to 10 of 555 entries

‹ 1 2 3 4 5 .. 56 ›

◀ | ▶

ID : II0001

Dashboard
Drawing
Injection
Bending
Harness
Power Cord
Andon
Setting

BENDING PRODUCTION RESULT

LINE | All ▼ | Part NO | All ▼ | 2021-11-8 ▼ to 2021-11-8 ▼ | Search | Down Excel

NO	DATE	LINE	PART NO	TOTAL	07 30	08 00	08 30	09 00	09 30	10 00	10 30	11 00	11 30	12 00	12 30	13 00	13 30	14 00	14 30	15 00	15 30	16 00	16 30	17 00	17 30	18 00
1	21-11-8	1	E0000000062	30	10	10	10																			
2	21-11-8	1	E0000000063	30				10	10	10																
3	21-11-8	1	E0000000064	30							10	10	10													
			SUB - TOTAL	90																						
1	21-11-8	2	E0000000062	30	10	10	10																			
2	21-11-8	2	E0000000063	30				10	10	10																
3	21-11-8	2	E0000000064	30							10	10	10													
			SUB - TOTAL	90																						
TOTAL																										

◀ | ▶

ID : II0001

Dashboard
Drawing
Injection
Bending
Harness
Power Cord
Andon
Setting

HARNESS PRODUCTION RESULT

LINE | All ▼ | Part NO | All ▼ | 2021-11-8 ▼ to 2021-11-8 ▼ | Search | Down Excel

NO	DATE	LINE	PART NO	TOTAL	07 30	08 00	08 30	09 00	09 30	10 00	10 30	11 00	11 30	12 00	12 30	13 00	13 30	14 00	14 30	15 00	15 30	16 00	16 30	17 00	17 30	18 00
1	21-11-8	1	E0000000062	30	10	10	10																			
2	21-11-8	1	E0000000063	30				10	10	10																
3	21-11-8	1	E0000000064	30							10	10	10													
			SUB - TOTAL	90																						
1	21-11-8	2	E0000000062	30	10	10	10																			
2	21-11-8	2	E0000000063	30				10	10	10																
3	21-11-8	2	E0000000064	30							10	10	10													
			SUB - TOTAL	90																						
TOTAL																										

PT.DSEC SMART SYSTEM

2021-11-8 00:00:00

ID : II0001

- Dashboard
- Drawing
- Injection
- Bending
- Harness
- Power Cord
- Andon
- Setting

POWER CORD PRODUCTION RESULT

LINE | All ▼ | Part NO | All ▼ | 2021-11-8 ▼ to 2021-11-8 ▼ | Search | Down Excel

NO	DATE	LINE	PART NO	TOTAL	07 30	08 00	08 30	09 00	09 30	10 00	10 30	11 00	11 30	12 00	12 30	13 00	13 30	14 00	14 30	15 00	15 30	16 00	16 30	17 00	17 30	18 00
1	21-11-8	1	E0000000062	30	10	10	10																			
2	21-11-8	1	E0000000063	30				10	10	10																
3	21-11-8	1	E0000000064	30							10	10	10													
			SUB - TOTAL	90																						
1	21-11-8	2	E0000000062	30	10	10	10																			
2	21-11-8	2	E0000000063	30				10	10	10																
3	21-11-8	2	E0000000064	30							10	10	10													
			SUB - TOTAL	90																						
TOTAL																										

Showing 1 to 10 of 555 entries

‹ 1 2 3 4 5 .. 56 ›

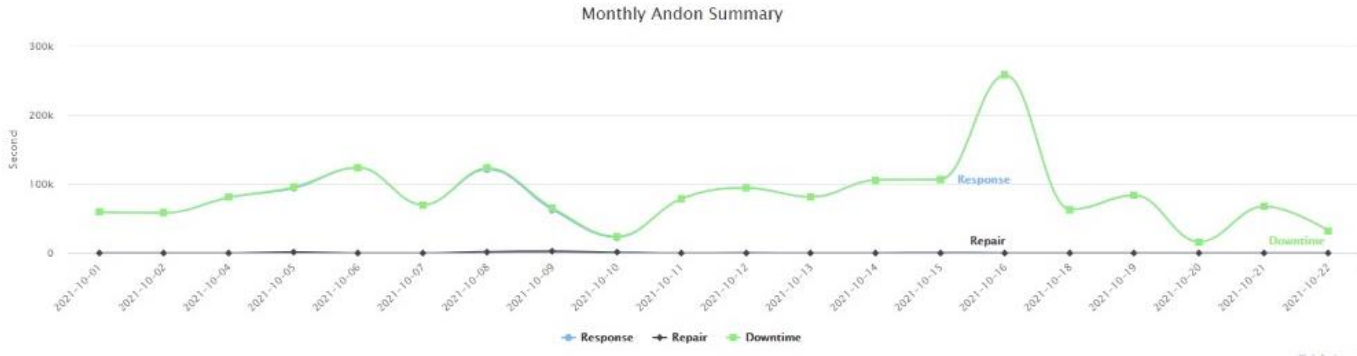
◀ | ▶

ID : II0001

Dashboard
Drawing
Injection
Bending
Harness
Power Cord
Andon
Setting

SUMMARY ACTUAL

All Process ▼ | All Machine ▼ | 2021. 10. 25 ▼ | Search | Excel



NO	Process	ZONE	item	Actual Today					Actual Month				
				Machine Call	Quality Call	Material Call	Help Call	Total	Machine Call	Quality Call	Material Call	Help Call	Total
			Call	10	10	10	10	40	10	10	10	10	40
			Downtime	00:10:00	00:10:00	00:20:00	00:30:00	00:30:00	00:10:00	00:10:00	00:20:00	00:30:00	00:30:00
			Call										
			Downtime										
			Call										
			Downtime										
			Call										
			Downtime										
			Call										
			Downtime										

◀ | ▶

ID : II0001

Dashboard
Drawing
Injection
Bending
Harness
Power Cord
Andon
Setting

ANDON HISTORY

2021. 11. 8 ▼ To 2021. 11. 8 ▼ Search Excel

No	Process	ZONE	Call	Arrive	Complete	Downtime	Machine Call	Quality Call	Material Call	Help Call
1	Cutting	1	2021-11-8 13:00:00	00:10:00	00:20:00	00:30:00	●			
2	Harness	2	2021-11-8 13:00:00	00:10:00	00:20:00	00:30:00		●		
	TOTAL									

◀ | ▶

ID : II0001

Dashboard

Drawing

Injection

Bending

Harness

Power Cord

Andon

Setting

UPLOAD SPK DATA

ADD EXCEL DATA

PLEASE ADD SELECT EXCEL FILE

PT.DSEC Excel data → Smart Server DB

◀ | ▶

ID : II0001

Dashboard

Drawing

Injection

Bending

Harness

Power Cord

Andon

Setting

USER SETTING

+ Add

NO	ID User	Name	Admin	GL	OP	GM	Option
1				√			Update Delete
2							Update Delete
3							Update Delete
4							Update Delete