



Advantage for Our Clients

Ruj. Fail : MIDA.001.600-4/5/5

Tetuan

RPAPLUS Sdn. Bhd.
1-4-7 Krystal Point Corporate Park
Jalan Tun Dr. Awang, 11900 Bayan Lepas
Pulau Pinang

Tuan,

Permohonan Daripada RPAPLUS Sdn. Bhd. Untuk Mendapatkan Galakan Taraf Perintis Di Bawah Takrifan Syarikat Penyelidikan Dan Kemajuan Kontrak Di Bawah Akta Penggalakan Pelaburan 1986 Bagi Menjalankan Perkhidmatan Penyelidikan Dan Kemajuan Kontrak Ke Atas 'R&D Services for Smart Manufacturing and Digitalisation Solutions' Sebagai Projek Baharu



MIDA SENTRAL

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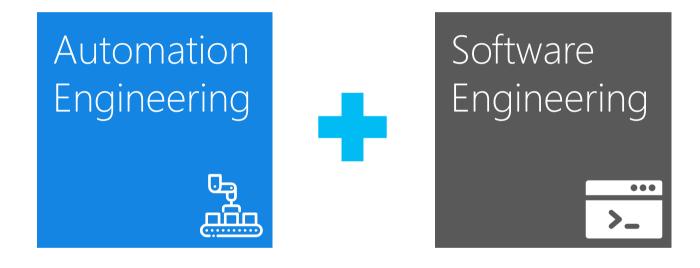
E: investmalaysia@mida.gov.my

www.mida.gov.my

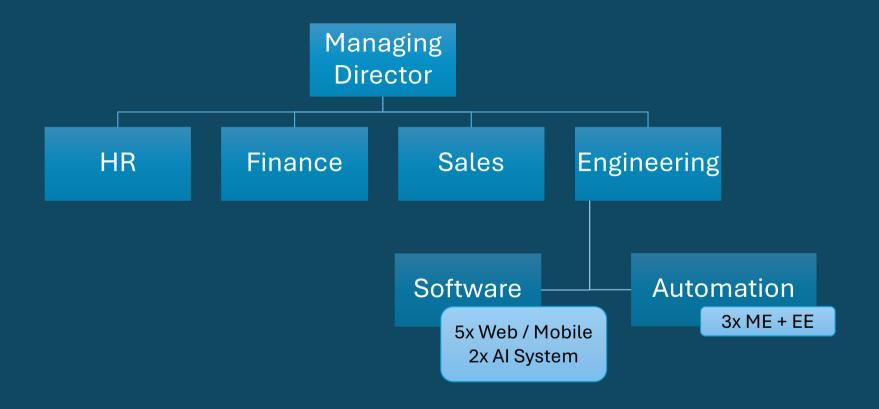
MIDA Approved R&D Service Provider

Our clients can claim
DOUBLE TAX
DEDUCTION
on approved R&D
expenditure





Organization chart



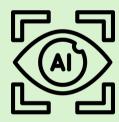
Capability





System integration





Al Vision







Bespoke Software

Reduce Manual Operation
Connectivity to Bridge between the OT-IT domains.



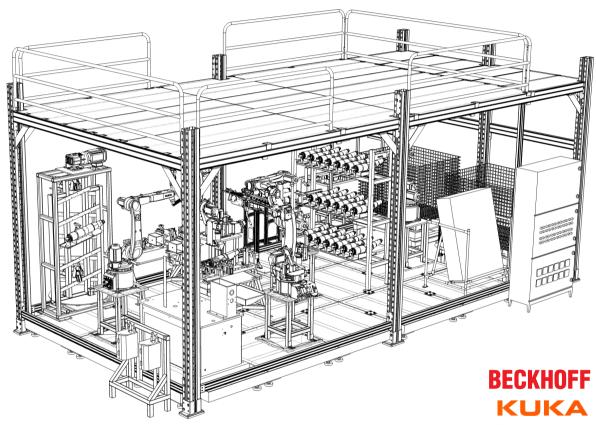


Smart Automation

Muffler Welding Assembly Production

- 5 robots work cell
- Multiple welding and manipulation job run in parallel
- 3D SCADA connectivity monitor real time status for every robot & station

	Spec
Product	Motorcycle Muffler
Dimension	7815 x 4890 x 3780
Cycle Time	96s / muffler
Load / Unload	Manual, non-stop feeding



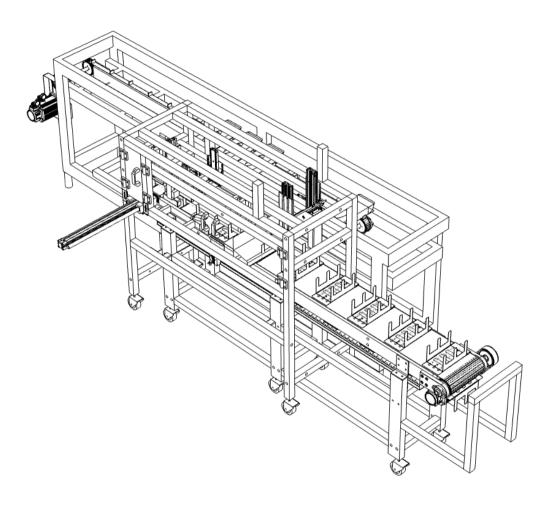




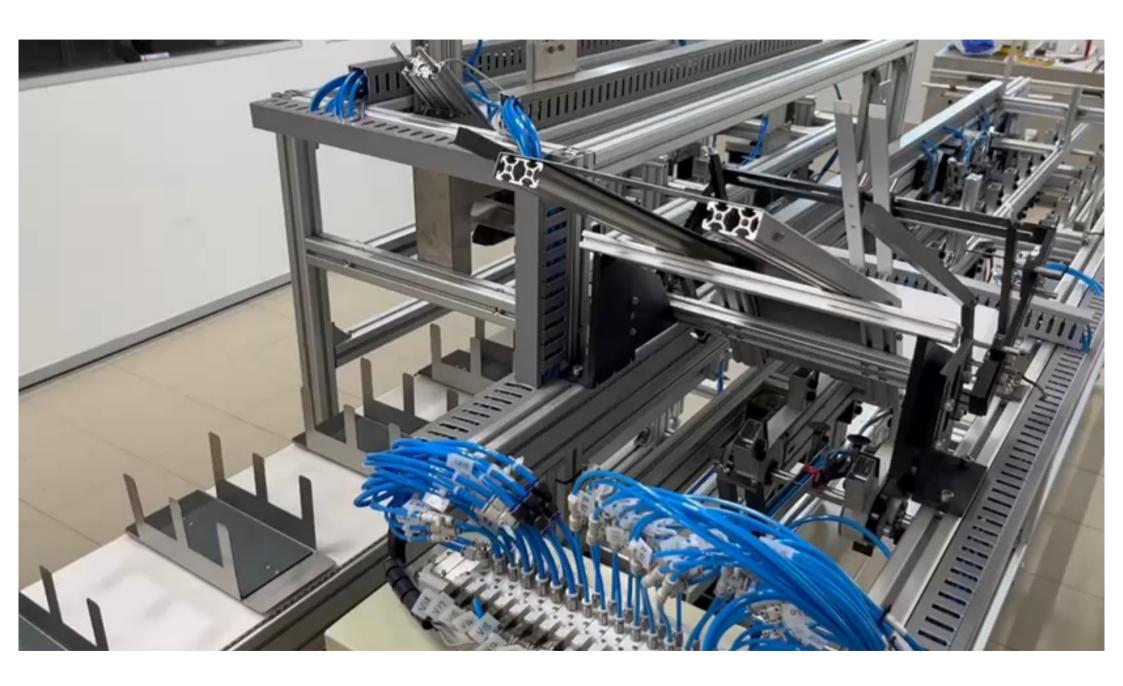
Glove wrapping & box insertion process

- Auto wrap glove stacks with thin paper sheet
- Glove box auto folding mechanism
- Wrapped glove stacks auto insert into glove box
- both side of glove box is folded & sealed.

	Spec
Product	Nitrile Glove (100x in a box)
Dimension	3900 x 1530 x 1420
Cycle Time	7s / glove box
Load / Unload	Auto, non-stop feeding



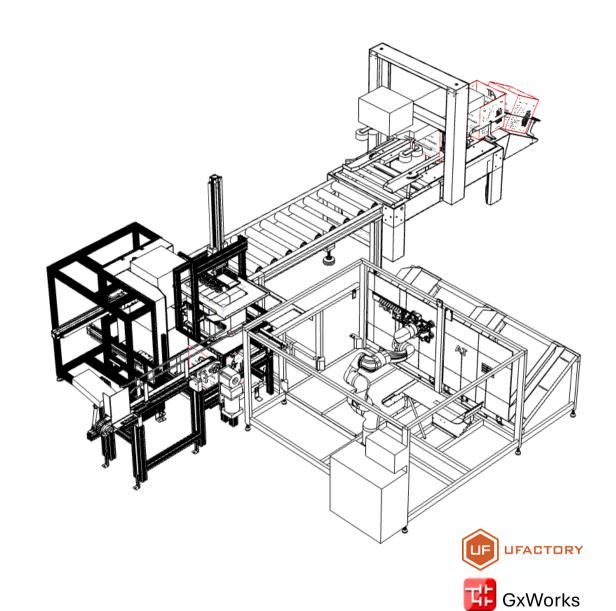




Glove carton packing

- Auto pack 10x glove box in a stack
- Auto fold carton
- Auto insert glove box stacks to carton
- Seal & print lot num, & Manu. Date on Carton

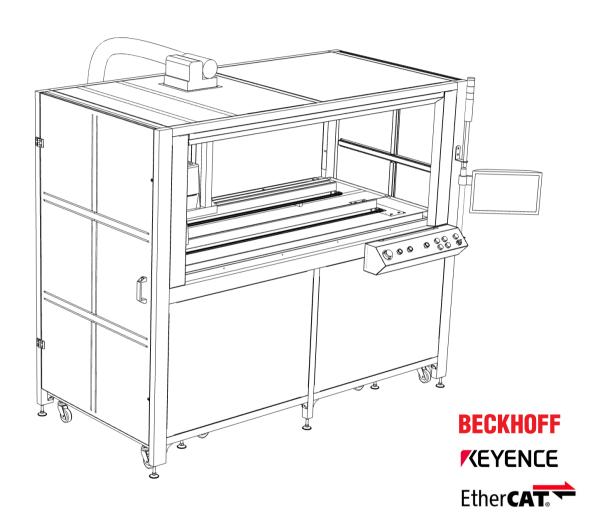
	Spec						
Product	Carton Glove (10x in a carton)						
Dimension	4470 x 2660 x 1700						
Cycle Time	60s / carton						
Load / Unload	Manual, non-stop feeding						



Flat rod QC Inspection Automation

- Accuracy 16um
- Dual lane laser profiler scanning
- Full scan profile, reconfigurable inspection point
- Auto engrave S/N on flat rod on pass FG

	Spec					
Product	QC Flat rod					
Dimension	4470 x 2660 x 1700					
Cycle Time	30s / flatrod					
Load / Unload	Manual					

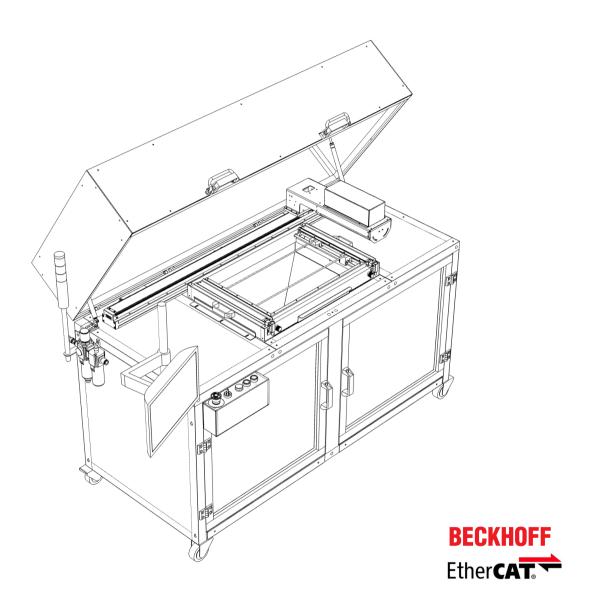


EtherNet/IP

lonizing spacer remover Automation

- Dual directional blower
- Ionized Air blower to remove die cut spacer
- Support multi model

	Spec
Product	IC spacer
Dimension	1660 x 780 x 1195
Cycle Time	60s / 100 spaces
Load / Unload	Manual

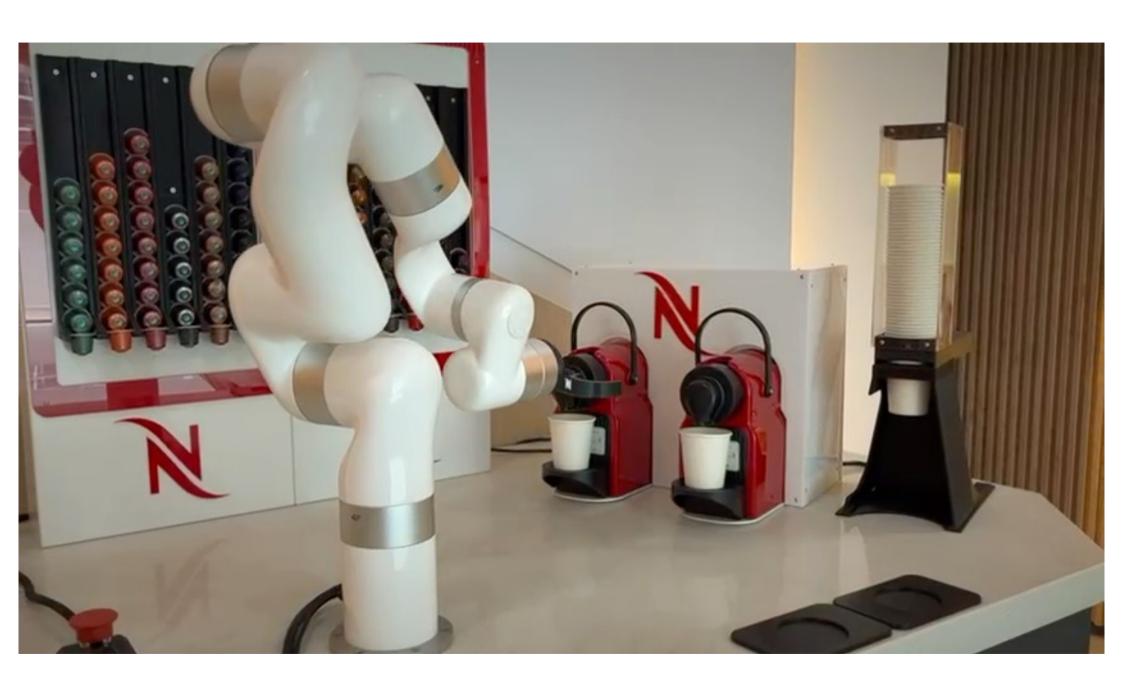


Nessiok coffee robot

- Auto capsule coffee serving
- Robot pick & place selected coffee into coffee machine
- Auto cup dispenser
- custom design ordering kiosk

	Spec
Product	Coffee (Nescafe Nespresso)
Dimension	1525 x 915 x 1630
Cycle Time	150s / cup (110ml)
Load / Unload	Manual, 100 capsule/load





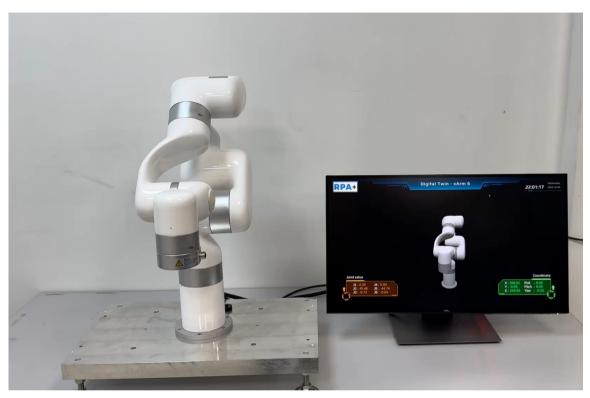
Maxis business innovation center gamified inventory allocation automation robot

- Digital twin interaction
- Real time robot & sensor monitoring in 3D
- Robot auto pick & place rack selection

	Spec
Product	Gift on rack
Dimension	1200 x 960 x 860
Cycle Time	20s
Load / Unload	Manual



Digital Twin





Digital twin is a virtual replica of a physical object or system that simulates its behaviour in real time to enhance

Monitoring, analysis, and decision-making.

Mixobot Cobot

- Auto cocktail preparation
- Robot dispenser the selected liquor recipe into mixer, add soda & ice with designed shake mixing motion
- Auto ordering & serving program

	Spec					
Product	Cocktail					
Dimension	2870 x 1920 x 1790					
Cycle Time	150s / cup					
Load / Unload	Manual, 50 liquor/load					



Swift







Smart Factory

RPA - MES

Smart
Manufacturing
Execution
System



RPA - MES

- Production Planner
- Work Order Tracking
- Toll Gate
- Real-time OEE
- Down Time Tracking
- QC Report



Production Planner

Production Scheduler features a drag-and-drop interface within a calendar Gantt chart view, enabling planners to quickly identify production lead times with just a few clicks.

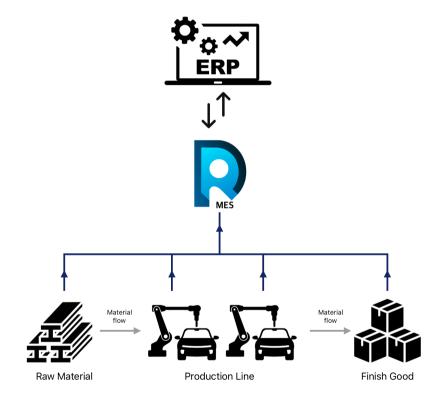
Allowing planner for easy oversight of overall production capacity and machine utilization immediately.



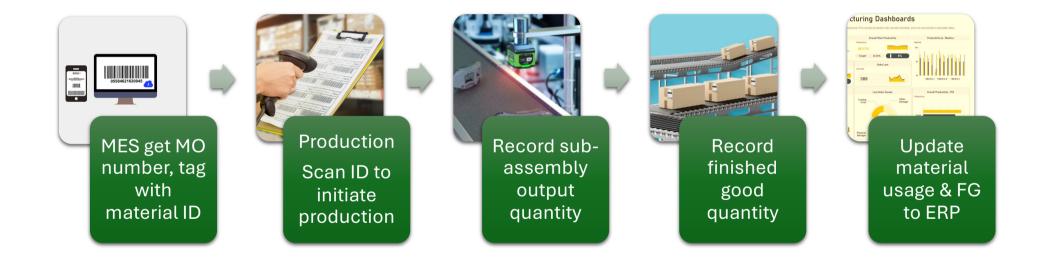
Work Order Tracking

Work Order Tracking oversees the utilization of raw materials from the Inventory as they progress through each production phase. It monitors both the incoming raw materials and the outgoing finished components, culminating in the final product. This process guarantees that there is no chance for unrecorded waste.

By synchronizing with ERP, inventory data will be updated in real-time, enhancing stock counts and improving procurement planning.



Work Order Tracking



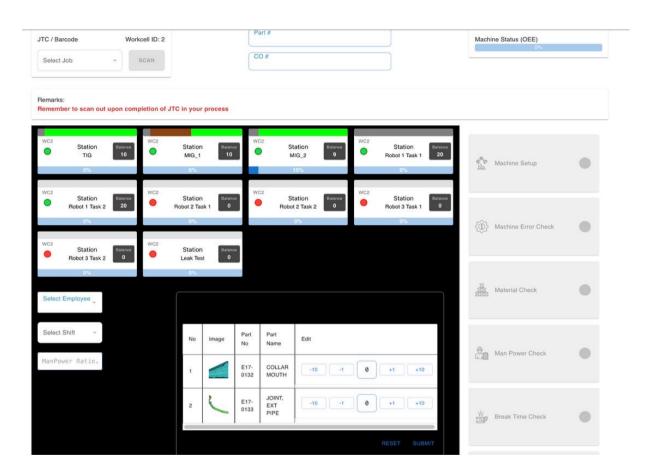
Toll Gate

Toll Gate controls the Start button of production machines, disable unplan production and control the lot quantity to prevent mixture of raw material to track variations & rejects.



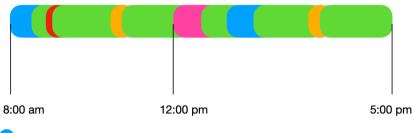
Real Time OEE

Toll Gate controls the Start button of production machines, disable unplan production and control the lot quantity to prevent mixture of raw material to track variations & rejects.



Down Time Tracking

Zone Performance Dashboard



Material Handling
Running Production

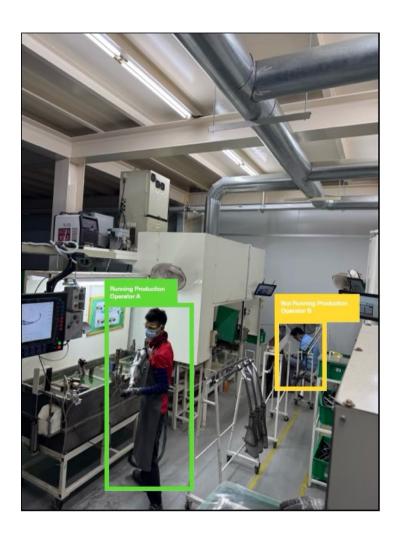
Not Running Production (Idle, Toilet Break etc)

Lunch hour

Material Handling time : 40 minutes
Running Production time : 422 minutes
Not Running Production time : 20 minutes
Lunch time : 58 minutes

Planned Production Time = Total Shift Time – Lunch Time – Material Handling Time Planned Production Time = 540 - 58 - 40 = 442 minutes Availability = Running Production Time / Planned Production Time

Availability = 422 / 442 ≈ 0.95475 or 95.475%



BECKHOFF

KEYENCE



EtherNet/IP







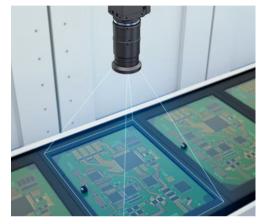


QC Report

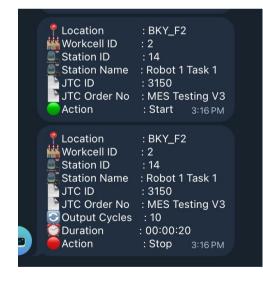
QC Report allows both AI vision or human input.

Record & notifies the defect parts to the line engineer to inspect the specific station/machines that causes the quality issue.

Also notifies stake holder on the production status through Telegram API.









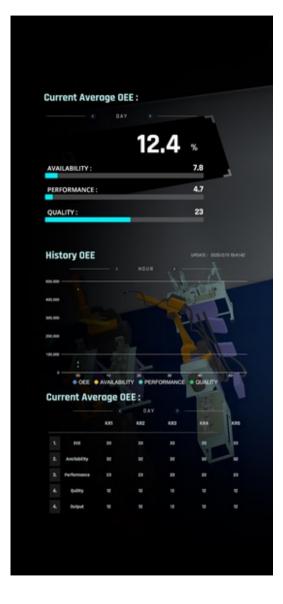


















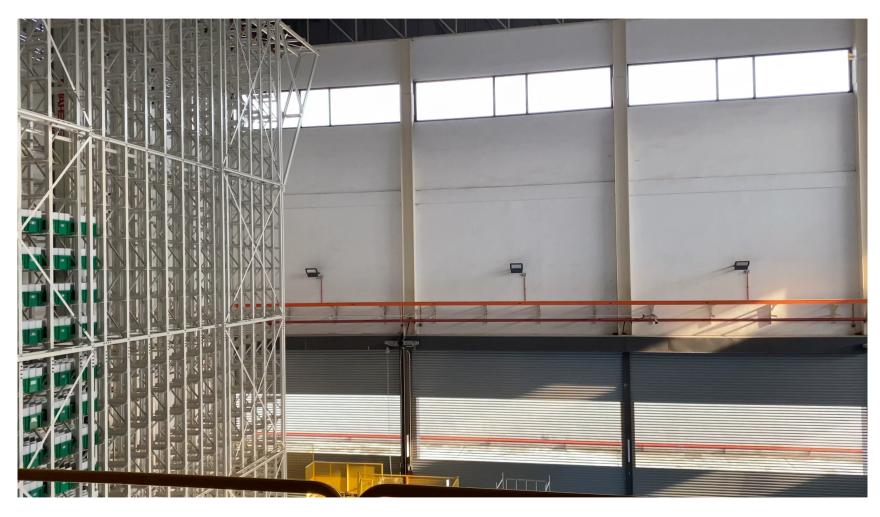
Digitalization - Smart Factory

"More efficient, agile & lean factory"

- ✓ Automated, Integrated systems & work-flows
- ✓ Streamlined business processes
- ✓ Data & info at finger tips for decision making
- ✓ Remote access to live operation
- ✓ Track from Sales Order, Work Order to Finished Goods



3D Scada Control Room



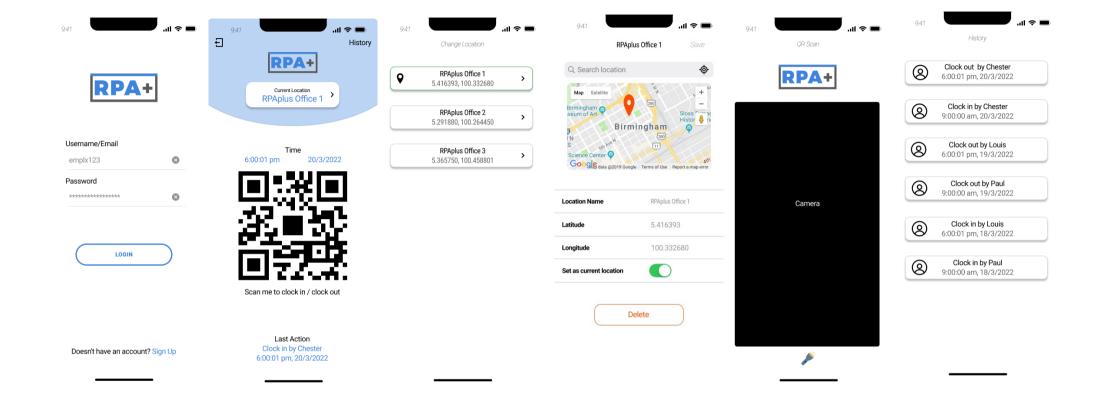


3D Scada Control Room



Bespoke Software



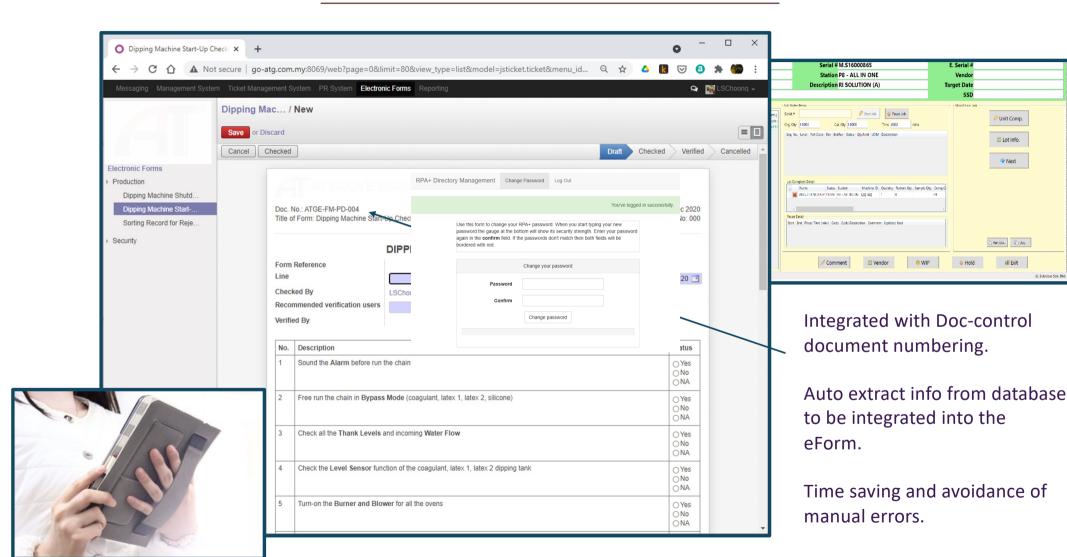




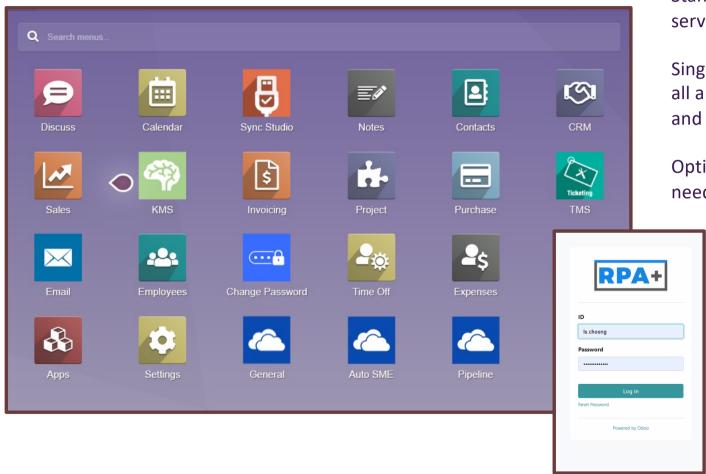
Office-Anywhere Attendance System

The Best Attendance Solution for Mobile / Remote Employees
Use this to replace the traditional badge scan terminal – Why Not?

Custom eForms to Suite Customer Needs



Single Secured Sign-on

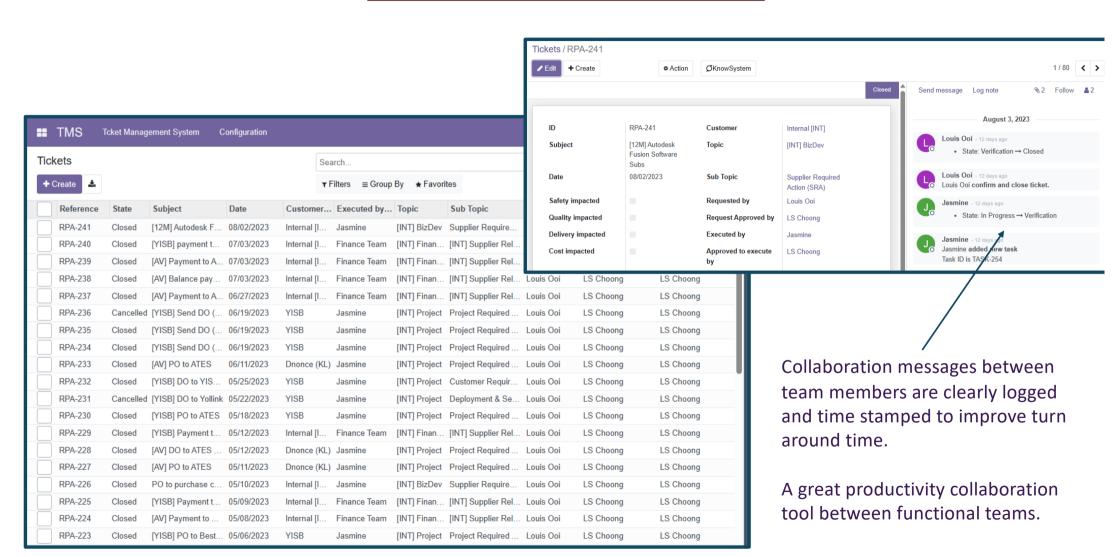


Standard based Authentication as a service.

Single login passwd and ID to access to all applications on dashboard. Secured and reliable.

Optional VPN framework per customer need.

Service Ticket Management System



Manufacturing Orders Tracking App

GENERAL	Add/Edit Com	pletion Date																		
FG Scanning Y	Show 10 v entries PDF Excel Copy														Search:					
Subcon FG Scanning	Shipment *	Shipment Value	Volume [‡]	Agreed Production Completion	Latest Revised Completion	Actual Production Completion	P2 Production Completion	Total PIM Quantity	Total PIM					Total Shipment Carton /	Shipment FG (Carton)	P1 FG (Carton) Completion	P2 FG (Carton) Completion	Total P2 Production	FG WH 1	Co
Injection Parts	ID	(USD)	m3	Date	Date	date	Date	For P2	Progress	PIM WH1	PIM WH2	JIG		Quantity	Progress %	Progress	Progress	Quantity	Receiving	da
Scanning Subcon Injection	TRY-20C01	35,142.31	21.0	2020-01-31	2020-08-27		2020-08-25	1735	2135 123.05%	0 0%	110 6%	2025 85%	25	586 561940	0 0%	0 / 542 0%	0 / 44 0%	7100	0 0	
Scanning	TRY-20A02																			_
SO Status Summary		1,381.15	0.7	2020-08-03	2020-08-03	2020-07-29	0000-00-00	0	0 0%	0 0%	0 0%	0 0%	2	17 2750	17 100%	17 / 17 100%	0 / 0	0	0 17	20
PIM / Subcon Order Tracking Y	TRE-20C01	38,960.12	33.3	2020-04-24	2020-08-13		2020-08-11	53350	56090 105.14%	0 0%	2000 4%	54090 92%	15	1181 99570	1097 92%	870 / 876 99%	227 / 305 74%	48610	185 1097	
Sales Order Tracking	TEH-20L01	5,866.86	3.8	2020-06-22	2020-06-22	2020-06-30	2020-06-19	14535	17165 118.09%	0 0%	4742 33%	12423 75%	-	109 16195	109 100%	1 / 1 100%	108 / 108 100%	15945	96 109	20
LE Dashboard Y												75%	0			100%	100%			
(PreCal) Trophy Shipment Dashboard Trophy Shipment Dashboard	TEH-20C01	29,770.96	19.1	2020-03-24	0000-00-00		0000-00-00	80185	75729 94.44%	2580 3%	20357 25%	52792 55%	9	518 84015	388 74%	40 / 40 100%	348 / 478 72%	76235	339 388	
Compact	TCD 201 04																			
Trophy Shipment Dashboard (PIM) Detail Trophy Shipment Dashboard	TCD-20L01	1,209.60	1.2	2020-03-27	2020-06-16	2020-06-15	2020-06-12	2200	2200 100%	0 0%	0 0%	2200 100%	0	28 2520	28 100%	0 / 0 0%	28 / 28 100%	2520	28 28	20
(FG) Detail Dashboard OEM (Precal)	TCD-20C01	14,317.36	12.2	2020-03-27	2020-05-18	2020-05-27	2020-05-14	39020	41834 107.21%	475 1%	0 0%	41359 87%	•	310 41140	310 100%	11 / 11 100%	299 / 299 100%	39020	299 310	20
Scanning Scanning													Η,							-
Experimental Y	TCD-20A02	43.20	0.0	2020-06-04	2020-06-04	2020-06-04	2020-06-04	0	0 0%	0 0%	0 0%	0 0%	0	1 90	1 100%	1 / 1 100%	0 / 0 0%	0	1 1	20
ERP Export Y	STI-20L02	7,048.36	6.9	2020-03-28	2020-06-30	2020-07-07	2020-06-26	7990	7166 89.69%	1820 23%	1800 23%	3546 39%		214 14628	214 100%	132 / 132 100%	82 / 82 100%	6960	124 214	20
Maintenance *												5570	_			10070	10070			
Scanning Archive	STI-20C01											05061	_			463 / 464	442 / 435			

Auto time stamped communication log to track and improve effectiveness of team members communication

Customers & Partners









































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