

With fresh mind of the beginning, Do the best perfectly & rapidly!



Feb. 2021

INDEX

I . Company Overview

II . Patent

III . Production List

IV . Reference Detail

1. Motto of Company

With fresh mind of the beginning, Do the best perfectly & rapidly.

2. Key points of management

- Proactive satisfaction for Customer Needs
- Continuous development of Technology
- Reduce the cost & expenses
- Management based on business performance

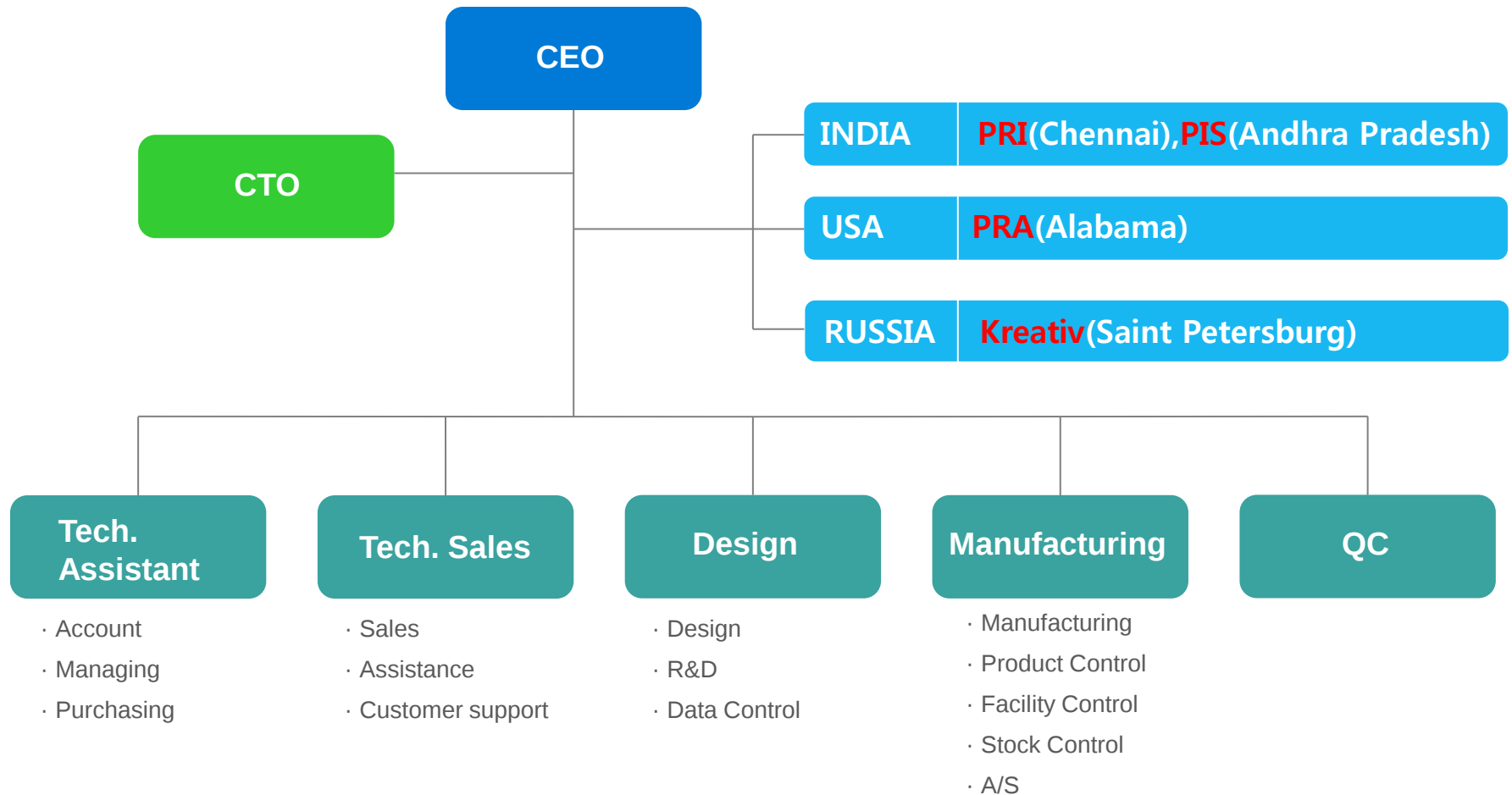
3. Overview

Based on our technical skill, confidence and knowhow by reference for Automobile/Heavy Industries, we, PISCO promise to supply high quality facilities & equipment and will try improvement of productivity, cost saving & guarantee of quality.

4. General Information

Company Name	PISCO			
CEO	Mr. K.S.Lee		CTO	Mr. K.I.Park
Established	1 st JUN., 2019			
Factory	Office		Product facility	
	330m²		1,650m²	
Main Product	■ Automation, FA System Engineering		Overseas Branch	
	■ Pallet & Carrier		INDIA	PRI (Chennai), PIS (Andhra Pradesh)
	■ Jig		USA	PRA (Alabama)
	■ Steel structure		RUSSIA (V,J)	Kreativ (Saint-Petersburg)
Location	Gyeongju-Si, Gyeongsangbuk-Do, KOREA			
Contact	Phone	054 - 705 – 0106	Fax	054 - 705 – 0107
	Web	-	e-mail	pisco61@daum.net

5. Organization



6. Map of company location



※ Address : 121-68, Gueodeulmit-Gil, Oedong-Eup, Gyeongju-Si, Gyeongsangbuk-Do, KOREA

1. Patent

Patent	Flywheel Auto-installer	10-0631143
	Assembly career Unit which can be loaded Suspension & Muffler together	10-0651171
	Phase angle & length measuring unit for Weight spot & Pin spot of Crankshaft	10-0687805
	Checker for Tool damage	10-0759505
	Dummy adaptor JIG for engine starting	10-0769929
	Checker Unit for Bearing install of Piston Con-rod	10-0769641
	Cylinder Liner washing M/C for med-large size cylinder liner	10-0935463
	Turning & Transfer unit for vertical elevator system	10-1171684
	Buffer type elevator Unit	10-1171707
	Multi washing & Air-blow unit	10-1178291
	Air-blowing Unit for Engine cylinder head	10-1178307
	Simplicity washing M/C for Cylinder head & Adaptor Plate by Shift & Tilting	10-1194099
	Simplicity washing M/C for coolant of Cylinder block & Air-blow	10-1194110
	Rotary simplicity washing M/C for V-cylinder block by Coolant spraying & Air-blow	10-1194111
	Robotic arm type simplicity washing M/C for cylinder head & transfer pallet	10-1194122
	Foreign substance remover for Cylinder head by Air	10-1194159
	Tower buffer unit	10-1197954

1. Patent

Patent	Loader type Simplicity washing M/C for Cylinder head & Adaptor plate	10-1202100
	Vetical simplicity washing M/C for Cylinder head by Coolant & Air-blow	10-1215193
	Transfer type simplicity washing M/C for Cylinder block & Ladder-frame	10-1434790
	Gantry type combination washing M/C	10-1470283
	Conveyor type combination washing M/C	10-147028
	Tilting type washing M/C for Pallet	10-1470285
	Burr removing Unit by abrasive	10-1470286
	Bolt recycling Unit	10-1506424

2. Award

Award	Month engineering Award – By Ministry of Science & ICT
	Month Trade Award – By Ministry of Knowledge Economy & KITA
	ULSAN Commerce&Industry Grand Prize – By Ulsan Metro City & Ulsan Cham
	Man of merit on Medium-small size business – By Ministry of Trade, Industry & Energy
	Man of merit on Ulsan Automobile Day – By Ulsan Metro City
	Prime minister citation on Trade Day – By Ministry of the Interior and Safety

III. PRODUCTION LIST

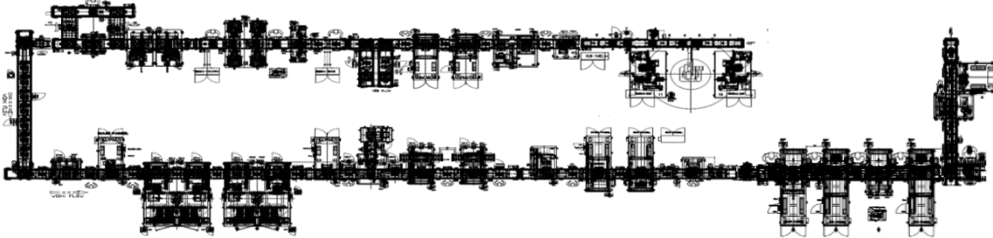


Engineering	Automation	Pallet & Carrier	Jig & Others
► Production Engineering -New Equipment Invest / Now Equipment Remodeling ► Process diagnosis Improving -Quality improvement -Productivity Improving -Safety Improving ► Equipment Relocation -Equipment Relocation & Line Relocation ► Factory construction -Optimal condition Lay-out & Factory construction	► Assembly Unit -Numbering M/C -Sealant Coater -Multi Nut-Runner -Press M/C -Leak Test M/C -Quality checker ► Washing Machine -Intermediate washing M/C -Air Blow M/C -Medium/High pressure washing M/C ► Automation -Elevator -Conveyor -Buffer -Input,Output/storage unit -Loading & Unloading -Auto Loader	► ENG & T/M Assembly Pallet -Eng, inter Assembly pallet -Assembly Pallet -Eng Test Pallet -T/M Ass'y Line Pallet -T/M Ass'y Test Pallet -Trimming Line Pallet ► Adapter Plate -For CYL Head Machining -For CYL Head & Block Trans -Dummy Head Ass'y ► Carrier -Assembly Carrier (For final assembly) -Muffler Assembly moving Carrier -Assembly body moving Carrier	► For machining -Machining JIG -Fixture ► Checking -Self-checking -Test -Checking device ► Loading & Unloading -Assembly Jig -For parts Jig ► Pallet -Warehouse Pallet -Moving Pallet -Stocking Pallet ► Steel structures -Working step -Deck , Safety Cover -Fence , Working deck -Moving deck, ENG Rotator , load

IV. MAIN PRODUCT REFERENCE



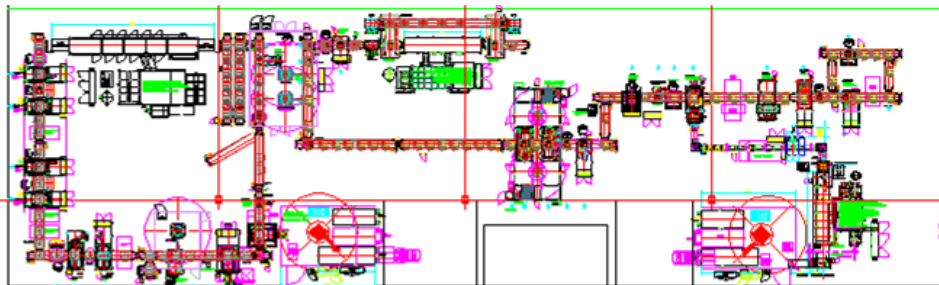
4-1. Assembly Line Turnkey (Nu/Gamma Engine Internal Assembly)

Project name	Nu/Gamma Engine Assembly Line Construction					M/C list
Project Concept	Eng. type	Units/year	Total length(m)	Customer	Remarks	M/C Name
	Nu & Gamma	300,000	110	HMC (Ulsan)		1. Eng. Numbering M/C 2. Ladder Frame Dis-ass'y M/C
Layout						3. Upper Bearing Auto Ass'y M/C
						4. Lower Bearing Auto Ass'y M/C
						5. Thrust Bearing Auto Ass'y M/C
						6. Ladder Frame Ass'y M/C
						7. Rear Oil Seal Auto Ass'y M/C
						8. CPS Wheel Auto Ass'y M/C
Line view						

IV. MAIN PRODUCT REFERENCE



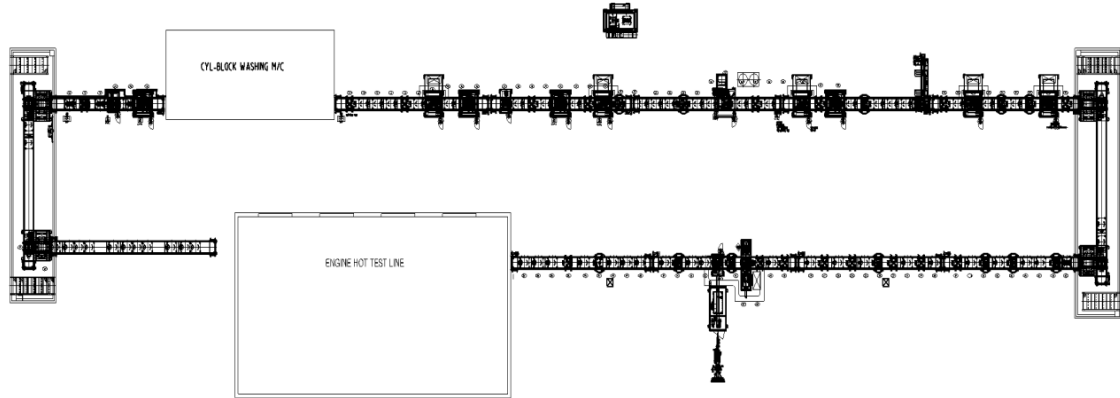
(Kappa Engine Internal Assembly Line Turnkey)

Project name	Kappa Engine Assembly Line Construction					M/C list
Project Concept	Eng. type	Units/year	Total length(m)	Customer	Remarks	1. Block In-put Machine
	Kappa	200,000		BHMC (China)		2. Eng. Numbering M/C
						3. Ladder Frame Remove M/C
Layout						4. Block Washing Machine
						5. Crank-shaft Sub Ass'y M/C
						6. Bearing Auto Ass'y M/C
						7. Piston Ass'y Machine
						8. Ladder Frame Ass'y M/C
						9. Oil-pan Ass'y Machine
Line view						

IV. MAIN PRODUCT REFERENCE



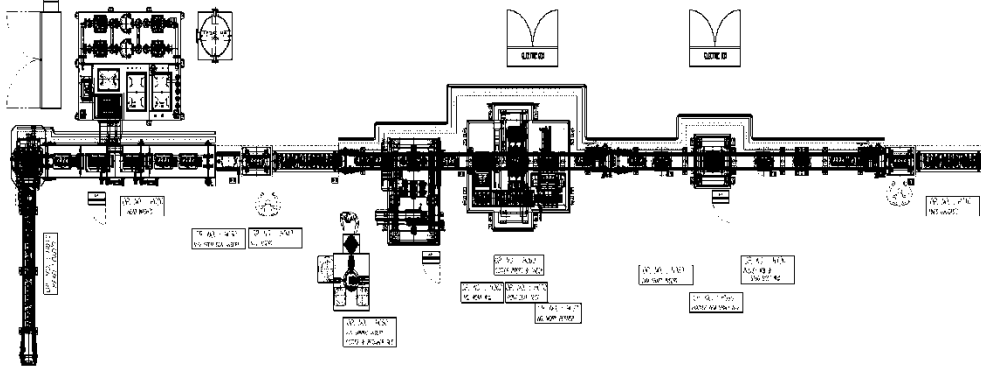
(TAGAZ Engine Assembly Line Turnkey Project)

Project name	TAGAZ Engine Assembly Line Main M/C						M/C list
Project Concept	Eng. type	Units/year	Number of M/C	Total length(m)	Customer	Remarks	M/C Name
	GA16-Eng.	200,000	18	44	TAGAZ		1.Eng. No. Marking M/C
Layout							2.Brg-Cap N-R
							3.Con-Rod N-R
							4.C/Head N-R
							5.Seal`g M/C
							6.CRK Pulley & F/W N/R
							7.Turn Over 6set
							8.Piston-Pin press
							9.Block Bore Oil Spray
Line view							10.C/H Auto Loading M/C
							11.Oil Injector
							12.Cam-Sprocket Presser
							13.Main Pallet
							14.C/Head Pallet

IV. MAIN PRODUCT REFERENCE



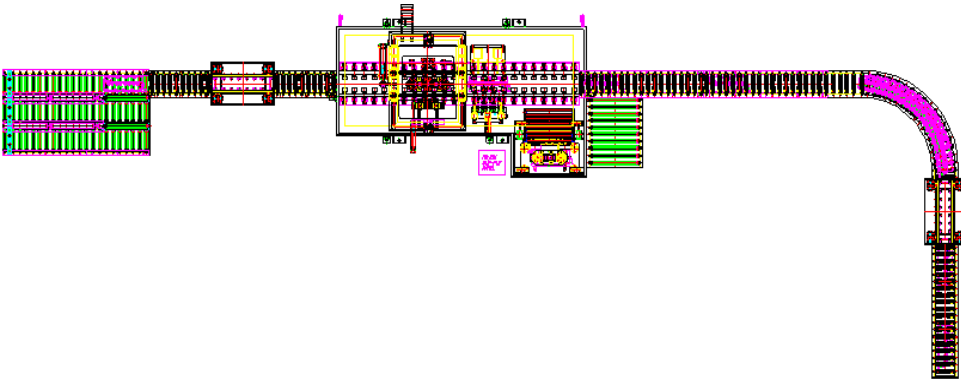
(Cylinder Head Sub Assembly Line Turnkey)

Project name	Cylinder Head Sub Assembly Line Construction					M/C list
Project Concept	Eng. type	Units/year	Total length(m)	Customer	Remarks	M/C Name
	IPSILON (1.0L/GAS)	100,000	30	HYUNDAI WIA		1. Input Conveyor
Layout						2. Washing M/C
						3. Stem Seal Press fit Tilting Device
						4. V/V For Mounting Turn over
						5. Cotter Press-fit Device
						6. Cotter L/T Unit
						7. Port L/T Unit
						8. Rework Device
						9. Manual station Conveyor
						10. Rocker-Arm N/R
						11. Quality check Device
Line view						
	Washing M/C	Tilti'g Unit & Turn Over	Cotter Press	Potter & Cotter & L/Test	Nutrunner	Stud Length Check

IV. MAIN PRODUCT REFERENCE



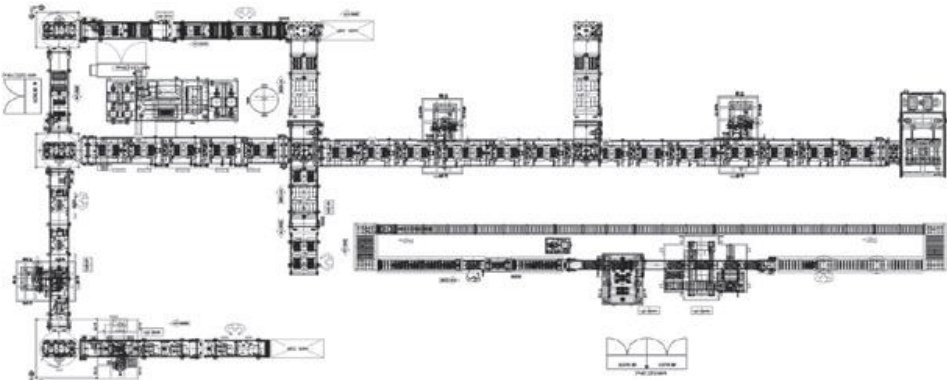
(Cylinder Head Sub Assembly Line Turnkey)

Project name	Cylinder Head Sub Assembly Line Construction					M/C list
Project Concept	Eng. type	Units/year	Total length(m)	Customer	Remarks	M/C Name
	· 4D56 (1ton/ DSL)	100,000	17	HYUNDAI WIA		1. Input Conveyor 2. V/V For Mounting Turn over
Layout						3. Cotter Press-fit Device
						4. Cotter L/T Unit
						5. Port L/T Unit
						6. Rework Device
						7. Manual station Conveyor
						8. Foreign matter removal Turn over
						9. Unload'g R-Conveyor
						10. Assembly Jigs
Line view						
						Input conveyor Turnover Cotter press & L/T Flush'g, Port L/T & Rework Manual station

IV. MAIN PRODUCT REFERENCE



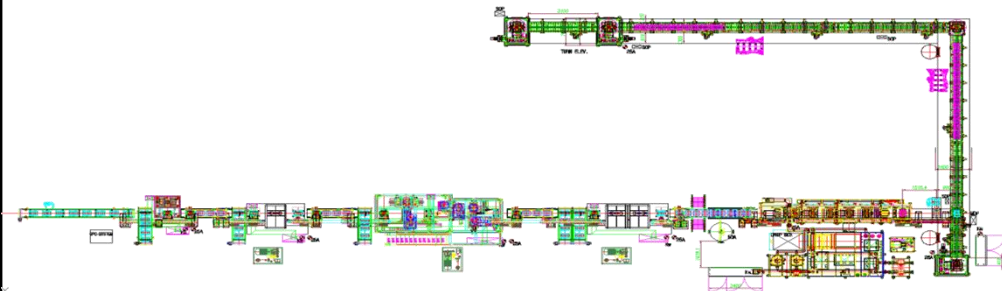
(In-Put & Cylinder Head Sub Assembly Line Turnkey)

Project name	In-input & Cylinder Head Sub Assembly Line Construction					M/C list
Project Concept	Eng. type	Units/year	Total length(m)	Customer	Remarks	M/C Name
	Kappa (1.2U/GAS)	50,000		HAOS (HMC Turkey)		1. Input Conveyor
Layout						2. Numbering M/C
						3. Turn-over M/C
						4. Washing M/C
						5. Stem Seal Press fit Tilting Device
						6. V/V for Mounting Turn over
						7. Cotter Press-fit Device
						8. Cotter L/T Unit
						9. Port L/T Unit
						10. V/V Lock Press-fit detection Device
						11. Rework Device
Line view						

IV. MAIN PRODUCT REFERENCE



(Nu Crankcase After-Processing Production Facilities)

Project name	NU Crankcase After-Processing Production Facilities					M/C list
Project Concept	Eng. type	Units/year	Total length(m)	Customer	Remarks	M/C Name
	Lower Crankcase	200,000	43	DR-AXION (China)		1. Auto Loader 2. Washing M/C 3. Before press-in Leak Test M/C 4. Auto Assembly M/C 5. After press-in Leak Test M/C 6. Auto Testing M/C 7. Output Conveyor
Layout						
Line view						

IV. MAIN PRODUCT REFERENCE



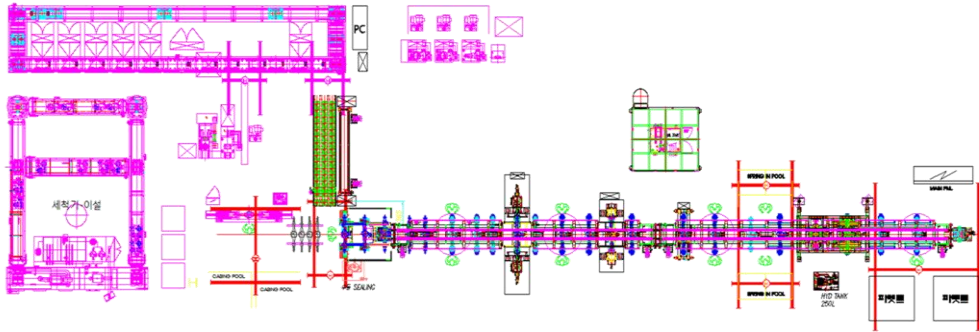
(Engine Assembly Manual Line M/C)

Project name	Engine Assembly Manual line Construction					M/C list
Project Concept	Eng. type	Units/year	Total length(m)	Customer	Remarks	Maker
	4D56 (2.7ℓ)	10,000	55	HYUNDAI WIA (Gwang-ju)		1. 5C Washing M/C 2. Barcode Manual issuing M/C
Layout						3. Sealant coating M/C
						4. BRG Cap Bolt N/R
						5. Piston / Con Rod Sub
						6. C/ROD N/R
						7. Cotter Press M/C
						8. Leak Test M/C
						9. FLY Wheel Bolt N/R
						10. D/Pulley Bolt N/R
						11. C/H Bolt N/R
						12. Eng Test Bench
Line view						

IV. MAIN PRODUCT REFERENCE



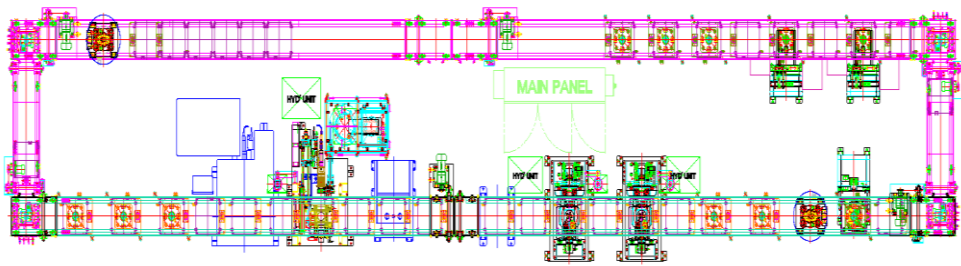
(Pu Rear Axle Assembly Line Turnkey)

Project name	PU Rear Axle Assembly Line Turnkey					M/C list
Project Concept	Eng. Type	Units/year	Total length(m)	Customer	Remarks	M/C Name
	PU-Rear Axle	100,000	44	HYUNDAI WIA (Gwang-ju)		1. Housing & Differenceal Ass`y M/C 2. Brake & Hub Ass`y M/C 3. ABS sensor Ass`y M/C 4. Pree Load Measuring M/C 5. Set plate Ass`y M/C 6. Shaft Ass`y M/C 7. Drum Ass`y M/C 8. Total Backlash Measuring M/C 9. Differenceal Oil Injector 10. Air breather Ass`y M/C 11. Parking cable Ass`y M/C 12. Axle shaft Ass`y M/C 13. Spring Ass`y M/C
Layout						
Line view						

IV. MAIN PRODUCT REFERENCE



(QL Front Axle Assembly line Turnkey)

Project name	QL Front Axle Assembly Line Turnkey					M/C list
Project Concept	Eng. Type	Units/year	Total length(m)	Customer	Remarks	M/C Name
	QL Front Rear Axle	100,000	46	HYUNDAI WIA (Gwang-ju)		1. ABS Sensor Ass'y M/C
Layout						2. Barcord reader
						3. Nut supply M/C
						4. L/NUT Fastener
						5. CVJ Presser
						6. RUNOUT Measuring M/C
						7. Starting torque Measuring M/C
						8. ABS Energization checker
						9. Leak Tester M/C
						10. Caliper Heterogeneous detector
						11. Washer leak detector
						12. Label print (Final check)
						13. Assembly Conv.
Line view						

IV. MAIN PRODUCT REFERENCE



(Tire Transfer & Installation Facilities– Auto Transport System)

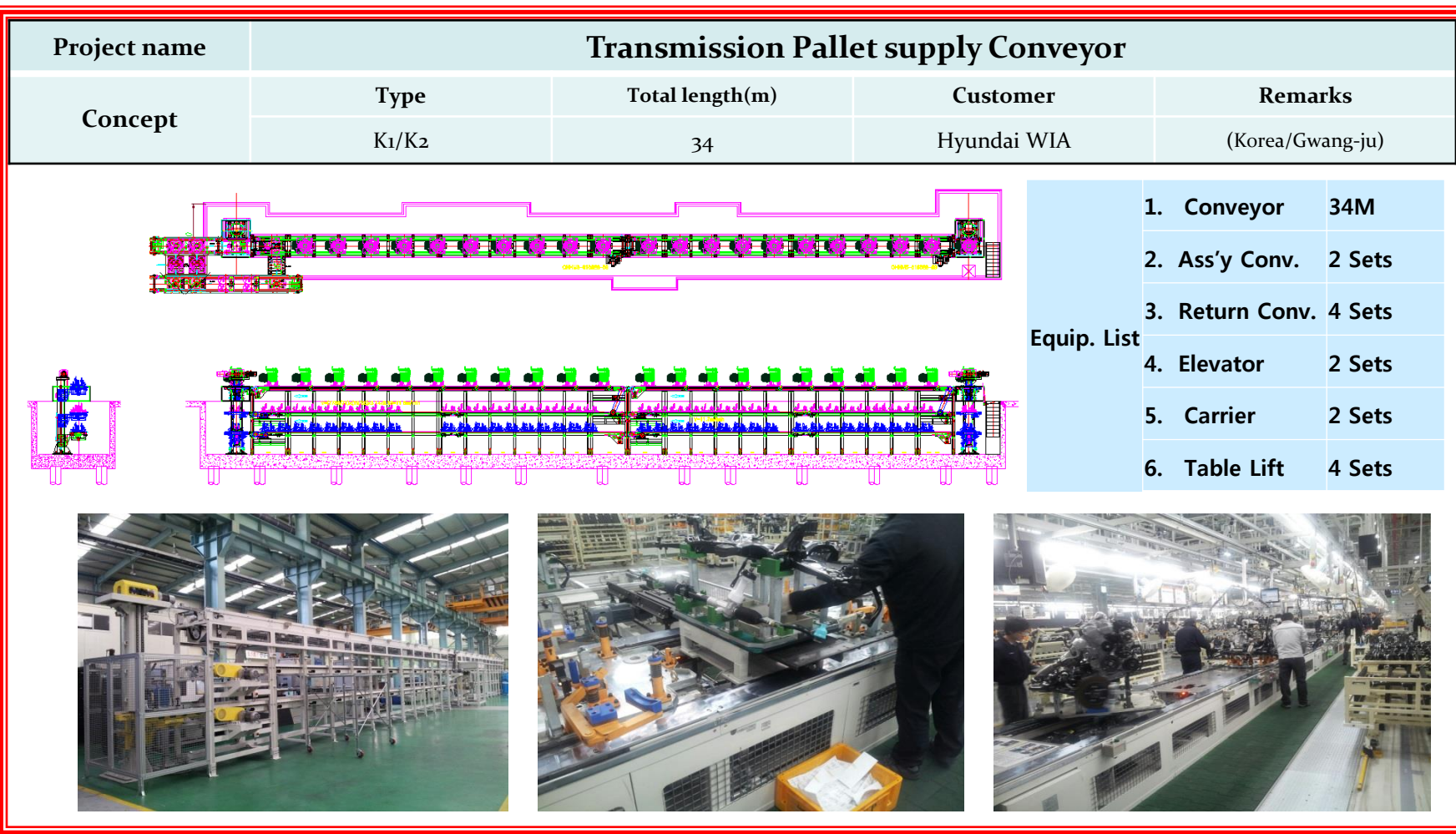
Project name		Tire Transfer & Installation Facilities		
Concept	Type	Total length(m)	Customer	Remarks
	Tire	42	Hyundai WIA	(Korea/Gwang-ju)

Equip. List		
1. Conveyor	42M	
2. Lifter	2 Sets	
3. Mount M/C	1 Set	
4. Diverting M/C	5 Sets	
5. Tilting M/C	2 Sets	
6. Stopper M/C	8 Sets	
7. Loading M/C	1 set	

IV. MAIN PRODUCT REFERENCE



(K1/K2 Engine Sub Conveyor – Auto Transport System)

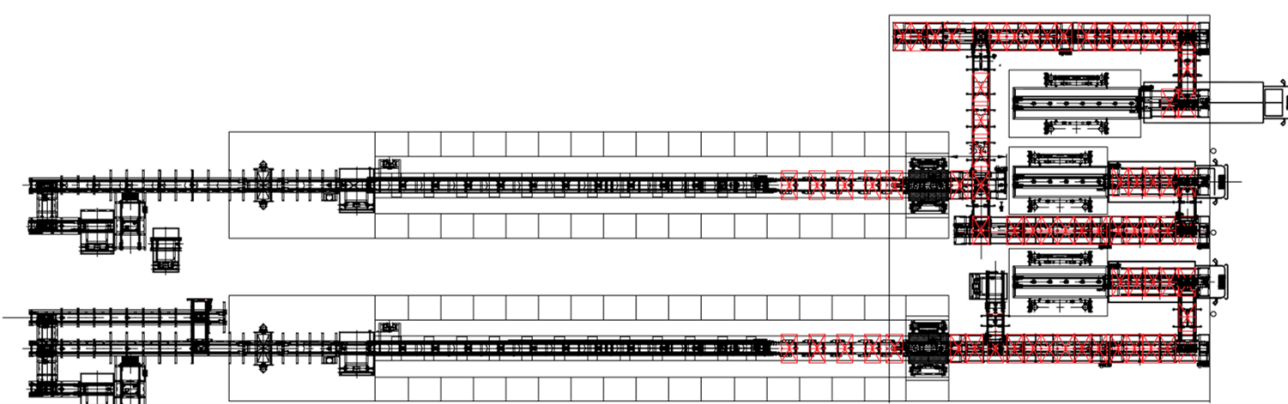


IV. MAIN PRODUCT REFERENCE



(Ulsan Mobis Plant 1 JS/OS Module Assembly line Shipment C/V)

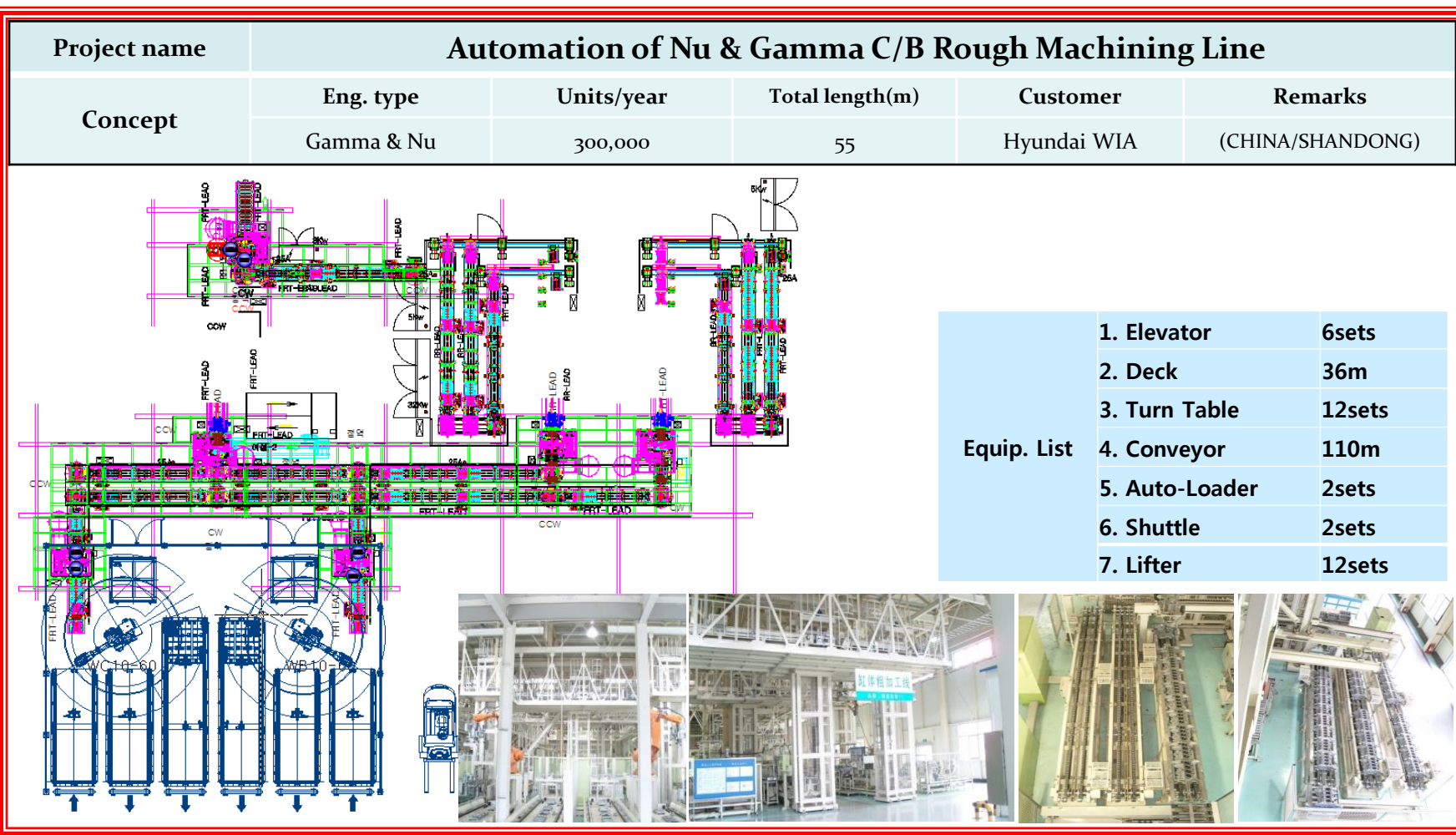
Project name	JS/OS Module Assembly line Shipment C/V			
Concept	Type	UPH	Customer	Remarks
	Front/Rear Chassis Mudule	95UPH(C/T : 45s)	Hyundai MOBIS	(Korea/ULSAN)



IV. MAIN PRODUCT REFERENCE



(Automation Equipment)

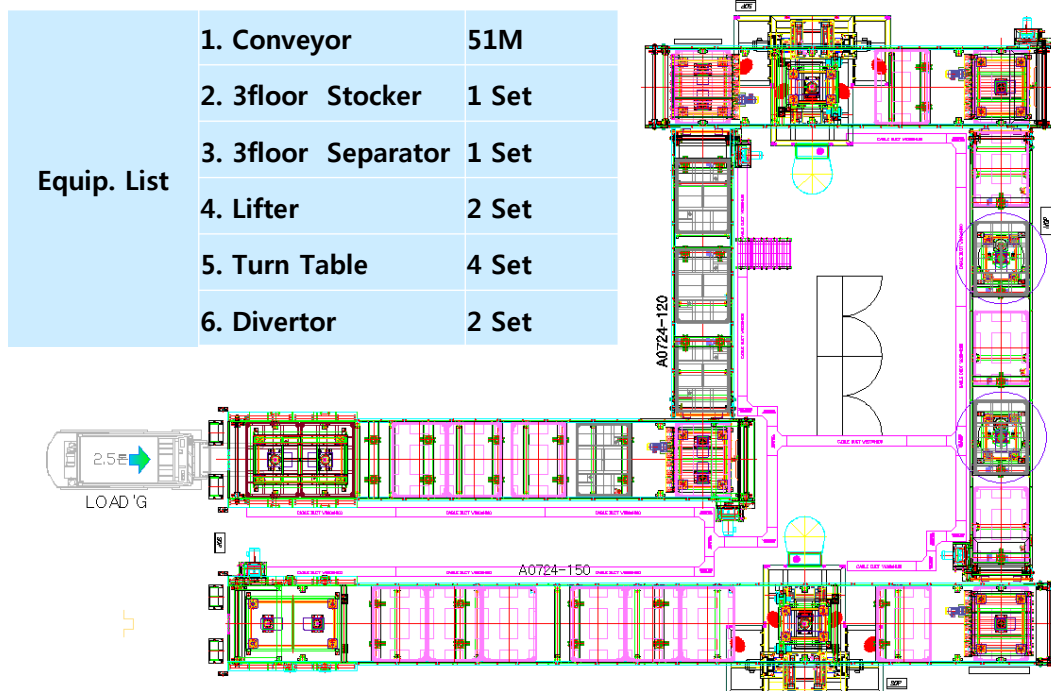


IV. MAIN PRODUCT REFERENCE



(Transmission supply Conveyor – Auto Transport System)

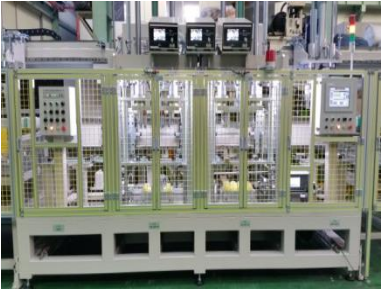
Project name	Transmission Pallet supply Conveyor			
Concept	Type	Total length(m)	Customer	Remarks
	T/M	51	Hyundai WIA	(Korea/Gwang-ju)



IV. MAIN PRODUCT REFERENCE



4-2. ASSEMBLY M/C

M/C				
NAME	C/HEAD COTTER PRESS & L/TEST M/C	BRG-CAP ASSY M/C	Numbering M/C	LCC ASSY M/C
FUNCTION	Press, Leak Test	Assembly	Numbering	Assembly
CUSTOMER	HYUNDAI WIA Poseung Plant	HYUNDAI WIA Poseung Plant	HYUNDAI WIA China Sandong Plant	DR AXION Beijing Plant

M/C				
NAME	C/HEAD COVER ASSY M/C	Sealant coater	CPS WHEEL ASSY M/C	LEAK TEST M/C
FUNCTION	Assembly	Coating	Assembly	Leak Test
CUSTOMER	KMC Hwaseong Plant	HYUNDAI WIA China Sandong Plant	HYUNDAI WIA Seosan Plant	DR AXION Beijing Plant

IV. MAIN PRODUCT REFERENCE



4-3. Automation Unit ①

UNIT				
NAME	C/Block In-put Equip.	C/Head IPT Stocker	Crank-shaft deburring M/C	Crank-shaft Stocker
FUNCTION	C/Block In-put	C/H Final checking & Loading	Crank-shaft deburring	Crank-shaft stocking
CUSTOMER	Hyundai WIA Seosan Plant 1	Hyundai WIA Seosan Plant 1	Hyundai WIA Seosan Plant 1	Hyundai WIA Seosan Plant 1

UNIT				
NAME	Intermediate Buffer	Pallet Stocker	Block Stocker	Over Head Conveyor
FUNCTION	Buffering	For model changing Pallet	C/Block rust preventing & stock	Auto-transfer
CUSTOMER	Hyundai WIA Mexico Plant	Hyundai WIA Mexico Plant	Hyundai WIA Mexico Plant	Hyundai WIA Mexico Plant

IV. MAIN PRODUCT REFERENCE



Automation Unit ②

UNIT				
NAME	Material loading Equip.	T/M Departing Conveyor	C/B Storage	A-Eng Departin Conveyor
FUNCTION	Material loading	Auto-tansport	C/B Auto-input system	Auto-tansport
CUSTOMER	Hyundai WIA Poesung Plant	HMC Asan Plant	HMC Asan Plant	HMC Ulsan Plant

UNIT				
NAME	Material Input Equip.	C/Block buffer conveyor	Transfer automation Unit	Transfer automation & Loading
FUNCTION	Material Input	C/Block buffer	Auto-transfer	Auto-transfer & (Un)Loading
CUSTOMER	HMC Jeonju Plant	HMC Ulsan Plant	HMI - C/B,C/H line (India)	HMI - T/M (India)

IV. MAIN PRODUCT REFERENCE



4-4. Washing M/C ①

M/C				
NAME	CYL HEAD WASHING	CYL HEAD WASHING	CYL BLOCK WASHING	CYL BLOCK WASHING
FUNCTION	Index Type, Hot Washing, Air blowing	Index Type, Hot Washing, Air blowing	Index Type, Hot Washing, Air blowing	Tunnel Type, Washing, Air blowing
CUSTOMER	HMC Ulsan Plant	HMC Asan Plant	KMC Hwaseong Plant	KMC Hwaseong Plant

M/C				
NAME	A/P Before installation WASHING	CAM Shaft WASHING	CON ROD WASHING	CRANK SHAFT WASHING
FUNCTION	Index Type, Hot Washing, Air blowing	Tunnel & T/R Type, Hot Washing, Air blowing	Tunnel Type, Washing, Air blowing	Tunnel Type, Washing, Air blowing
CUSTOMER	HMC Asan Plant	KMC Hwaseong Plant	KMC Hwaseong Plant	KMC Hwaseong Plant

IV. MAIN PRODUCT REFERENCE



Washing M/C ②

M/C					
	NAME	T/M CASE WASHING	6-Speed Ass'y WASHING	NU-Ladder Frame WASHING	T/M WASHING
	FUNCTION	Tunnel Type, washing, Air blow	Tunnel Type, washing, Air blow	Tunnel Type, Washing, Air blowing	Tunnel Type, Washing, Air blowing
	CUSTOMER	Hyundai Transys China Sandong	Hyundai Transys China Sandong	DR-AXION China Beijing Plant	HMI INDIA Plant

M/C					
	NAME	Case WASHING	Gear WASHING	Gear WASHING	Gear WASHING
	FUNCTION	Robot typt Washing, &Air blow	Tunnel Type, washing, Air blow	Index Type, Hot Washing, Air blowing	Tunnel & T/R Type, Hot Washing, Air blowing
	CUSTOMER	WIA Changwon Plant	WIA Changwon Plant	KMC Hwaseong Plant	HMC Ulsan Plant

IV. MAIN PRODUCT REFERENCE



Washing M/C ③

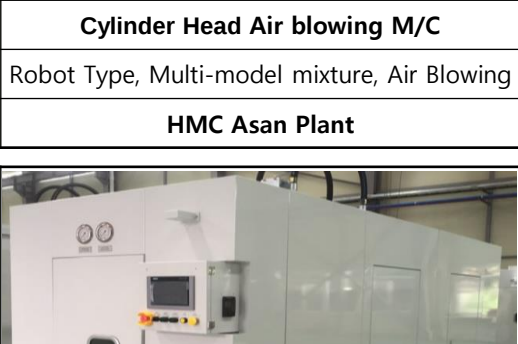
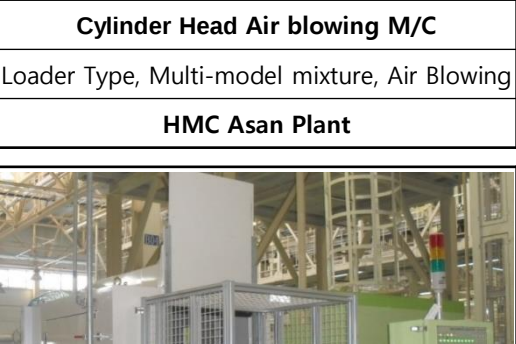
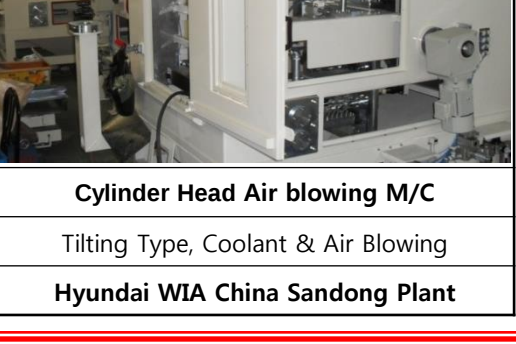
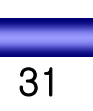
M/C			 Domestic/ Overseas Patent Enrollment		
	NAME	Gear WASHING	Washing & Press	CYLINDER LINER H/P WASHING M/C	Wet Blast M/C
	FUNCTION	Wash'g, &Air blow'g	Gear Washing & Press	Wash'g, Air blow'g, Work turn'g	Deburring, Hot Wash'g, Air blow'g, Aeration
	CUSTOMER	Hyundai Dymos Seosan	Hyundai Dymos Seosan	HHI Ulsan Plant	HMC Ulsan Plant

M/C					
	NAME	TOOL WASHING M/C	PARTS WASHING M/C	Engine 5C WASHING M/C Remodeling	Mold WASHING
	FUNCTION	Hot Wash'g, Air blow'g, Aeration, Nozzle Turn'g	Hot Wash'g, Air blow'g, Aeration	Hot Wash'g, Air blow'g, Aeration, Tunnel type	Hot Wash'g, Air blow'g, Aeration,
	CUSTOMER	HMC Jeonju Plant	Sejeong Industrial Co.,Ltd Asan Plant	Hyundai WIA Gwangju Plant	HMC Ulsan Plant

IV. MAIN PRODUCT REFERENCE



Washing M/C ④

M/C			
			
			
			
NAME	Cylinder Head Air blowing M/C		
FUNCTION	Robot Type, Multi-model mixture, Air Blowing		
CUSTOMER	HMC Asan Plant		
M/C			
			
			
			
NAME	Cylinder Head Air blowing M/C		
FUNCTION	Loader Type, Multi-model mixture, Air Blowing		
CUSTOMER	HMC Asan Plant		
M/C			
			
			
			
NAME	Cylinder Block Air blowing M/C		
FUNCTION	Tilting Type, Coolant & Air Blowing		
CUSTOMER	Hyundai WIA China Sandong Plant		
M/C			
			
			
			
NAME	Process WASHING		
FUNCTION	Washing, Air-Blow, Pumping System		
CUSTOMER	BHMC China Beijing Plant		
M/C			
NAME	Cylinder Head Air blowing M/C		
FUNCTION	Tilting Type, Coolant & Air Blowing		
CUSTOMER	Hyundai WIA China Sandong Plant		
M/C			
NAME	Cylinder Head Air blowing M/C		
FUNCTION	Tilting Type, Coolant & Air Blowing		
CUSTOMER	Hyundai WIA China Sandong Plant		

IV. MAIN PRODUCT REFERENCE



Washing M/C ⑤

M/C			
NAME	Cylinder-Head & Cylinder-Block Final Washing M/C		
FUNCTION	Robot Type High Pressure Washing , Airblow System (500 Bar)		
CUSTOMER	KMC Hwaseong Plant		

M/C			
NAME	Cylinder-Head High Pressure Deburring & Final Washing M/C		
FUNCTION	Robot Type High Pressure Deburring & IF Washing , Airblow System (500 Bar)		
CUSTOMER	DYK China Yancheng Plant		

IV. MAIN PRODUCT REFERENCE



4-5. Pallet & A/Plate

◆ Eng.-Main, In(Out)Assembly, C/H, T/B, L/F, CRK, Piston ◆ T/M-Main, Test pallet ◆ Adapt Plate

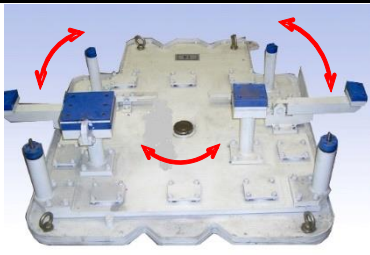
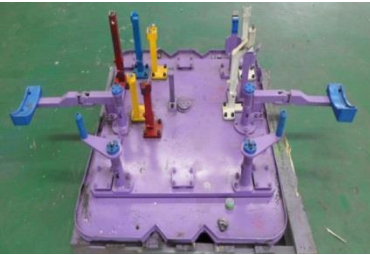
PICTURE				
UNIT	Eng. Pallet(for Internal Ass'y)	Eng. Pallet(for In & Ex Ass'y)	Eng. Pallet(for In&Ex Ass'y)	Adapter Plate
FUNCTION	1. I-type block top up & down 2. CRK loading shelf 3. Post tilting	1. I-type block top up & down 2. BRG-Cap loading shelf 3. Con-Rod cap loading shelf 4. L/Frame loading shelf	1. C/Block top up & down 2. BRG-Cap & BRG loading shelf 3. Con-Rod cap & BRG loading shelf 4. Crank/Sht loading shelf	1. HMI C/Head LINE (GROB.) 2. Air positioning check Root 3. Tolerance : 1/1000mm
CUSTOMER	HYUNDAI MOTOR COMPANY	HYUNDAI MOTOR COMPANY	TOYOTA MOTOR	HYUNDAI MOTOR INDIA
1. Main customer -HMC,KMC,HMI, HMMA,BHMC... 2. Type -Internal Ass'y Pallet -External Ass'y Pallet -Main Pallet(In+Ex) -Piston Ass'y Pallet -CRK Ass'y Pallet -C/H Ass'y Pallet -Hot Test Pallet 3. Total : Approx. 70 (15,000sets supplied)				
	Engine Hot Test Pallet	T/M. Pallet(for Auto-storage)	Flexible Pallet	Eng. Pallet(for C/Block Ass'y)
	* Coupler (coolant, fuel, oil-in/out) * Engine clamping system * Can test 3kinds of diesel engine	1.T/M housing up & down	1. Base Pallet 2. Adapter Ass'y 3. Engine Mounting Unit	1. C/Block top up Base 2. BRG-Cap & BRG loading shelf 3. Crank/Shaft loading shelf
	HYUNDAI MOTOR COMPANY	HYUNDAI MOTOR COMPANY	HYUNDAI MOTOR COMPANY	TOYOTA MOTOR

IV. MAIN PRODUCT REFERENCE



4-6. Carrier

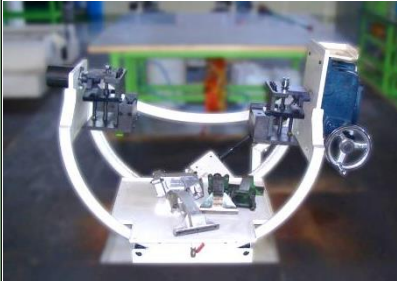
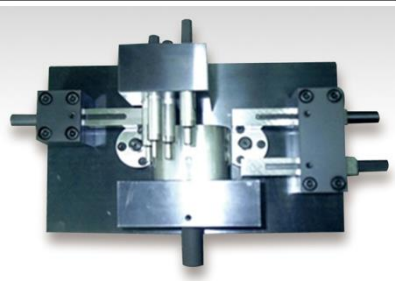
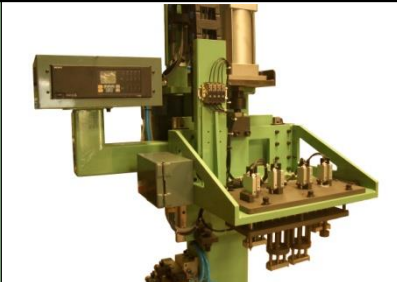
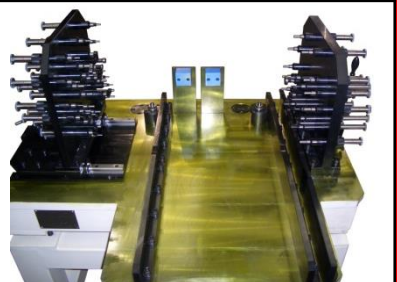
◆ Front suspension, Front suspension + Engine + T/M, Rear suspension , Engine + T/M

PICTURE				
UNIT	Front Suspension Carrier	Rear Suspension Carrier	Engine Carrier	Engine Decking Fixture
PURPOSE	for Front Suspension + Engine& Decking to	Bodyfor Rear Suspension + Muffler + Others	Engine accessory assembly	Engine+Transmission+front suspension
FUNCTION	* Tilting extension bar * Turn(20°) the midplate for adjusting when decking)	* Wings can be extend (turned) * Turning pad * for assembly 'H' type suspension	* Upper plate Turn	* Arms can be extend * Adjusting pad * Can assemble 19 kinds
CUSTOMER	HYUNDAI MOTOR COMPANY	HYUNDAI MOTOR COMPANY	HYUNDAI MOTOR COMPANY	RENAULT SAMSUNG MOTOR
1. Main customer -HMC,KMC,HMI, HMMA,BHMC... 2. Type -Eng(+T/M) Carrier -Front Sus. (+Eng+T/M)Carrier -Rear Sus. Carrier -Muffler Ass'y Carrier -Rear Sus.+Muffler Carrier 3 Total: 20 types 1,000 Sets supplied				
	Front Suspension Carrier	Rear Suspension Carrier	Engine Carrier	Rear Axle Decking Fixture
	for Front Suspension + Engine& Decking to	Bodyfor Rear Suspension & Others assemble	Engine accessory assembly	Rear Axle & accessory assembly
	* Tilting extension bar * Turn(20°) the midplate for adjusting when decking)	* Wings can be extend (turned) * for assembly 'H' type suspension	* Upper plate Turn	* Arms can be extend * Adjusting pad
	HYUNDAI MOTOR COMPANY	HYUNDAI MOTOR COMPANY	HYUNDAI MOTOR COMPANY	RENAULT SAMSUNG MOTOR

IV. MAIN PRODUCT REFERENCE



4-7. Jig & Measuring Unit

PICTURE				
UNIT	Engine Reworking Rotator	Fly-wheel Auto-loader	Adaptor Plate Trolley	Crank Length & Pin angle checking
PICTURE				
UNIT	Diff. case Clearance Checking	Gear OPD Check Unit	C/Block Hole Position Check Unit	Gauges
PICTURE				
UNIT	Bearing assy. status Check	Gear OPD Check Unit	Gear Check Unit	C/Block Hole Position Check Unit

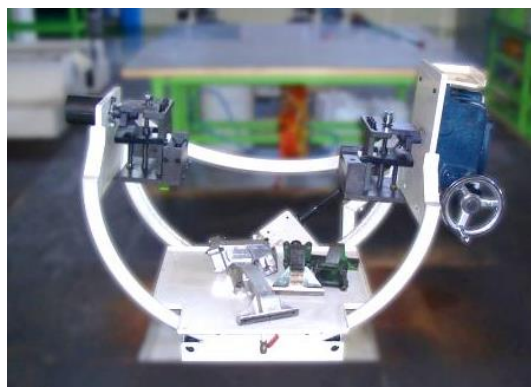
IV. MAIN PRODUCT REFERENCE



4-8. Others ①



Adaptor Plate Trolley



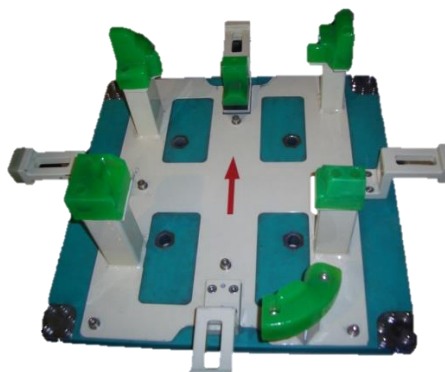
Engine Reworking Rotator



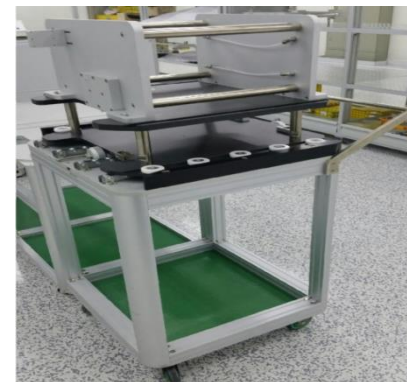
Fly-wheel Auto-loader



Engine Moving Pallet (HMC Ulsan)



Engine Ass'y Pallet (HMC Ulsan)
- Final engine moving



Cart Full stack-Leak & Full Stock
Inspection (MOBIS Chungju)

IV. MAIN PRODUCT REFERENCE



Others ②



#01



#02



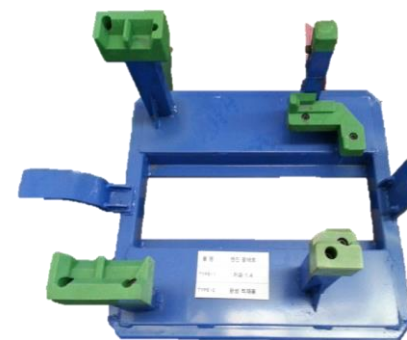
#03



#04



T/M Moving Pallet



Final engine stocking Pallet

IV. MAIN PRODUCT REFERENCE



Others ③



#05



#06



#07



#08



#09



#10

Спасибо

Thank You

आभारी हूँ / धन्यवाद

ありがとうございます

谢谢

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