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UPT Company Introduction

-2024-

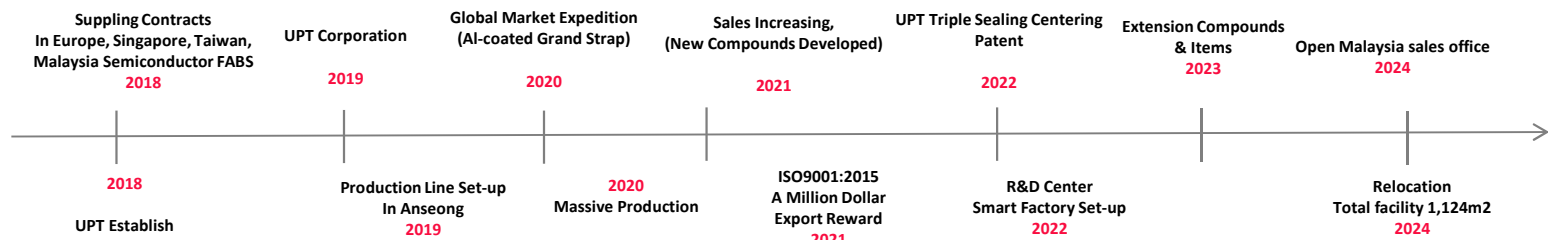
2024.11.01 Steve Lee



UPT History



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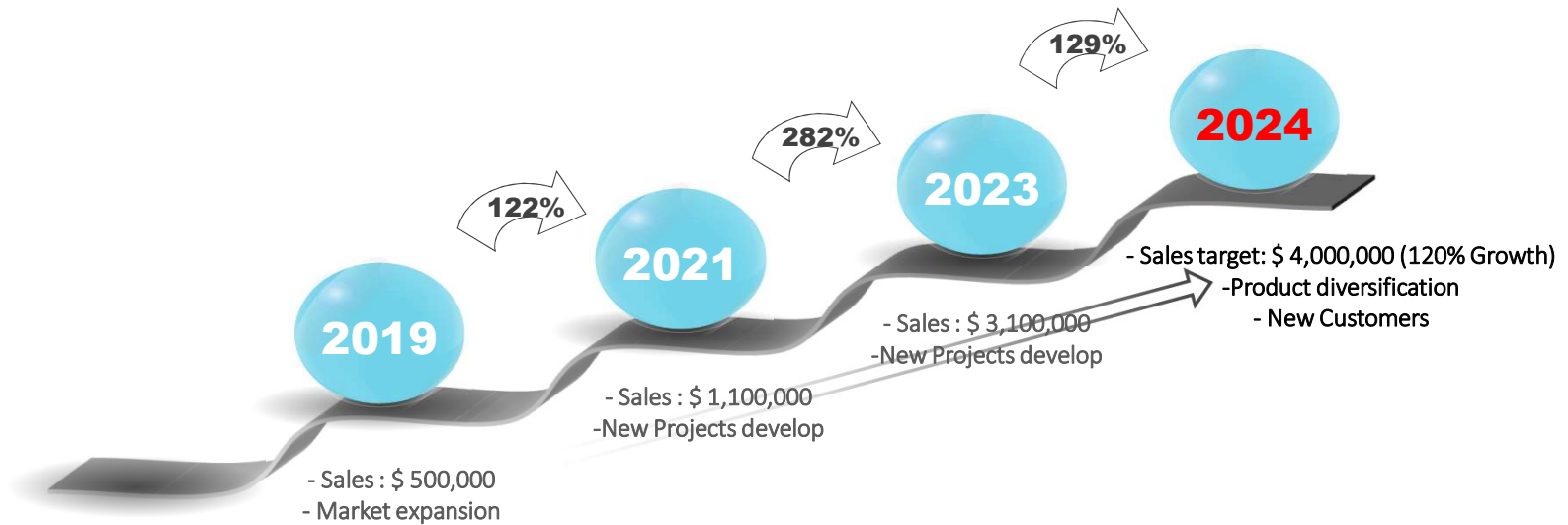


Company	㈜ 유피티, UPT CO., LTD. South Korea
Establish	December, 2018
CEO	Steve Lee
Main Business Items	Semiconductor, Display Spare Parts Production & Sales
Address	Korea Headquater : #469-1, Seoun-myeon Anseong-si Gyeonggi-do, Republic of Korea Malaysia Branch : 35, Lorong Nagasari 5, Taman Nagasari, 13600 Perai, Pulau Pinang
Home Page	www.uptkr.com
Tel & Fax	Tel : 82-31677-9992, Fax : 82-31677-9993

UPT Sales



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2024 goal: \$4,000,000

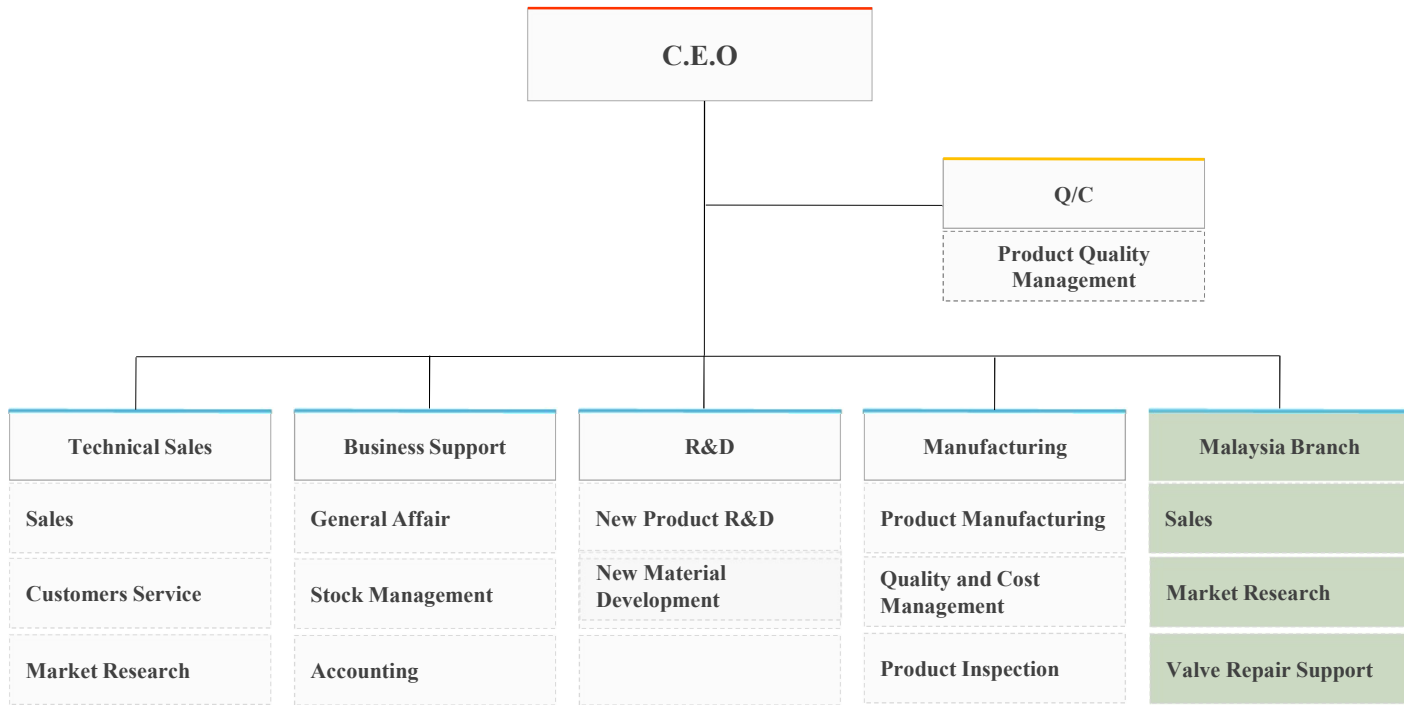
1. Continuous investment in R&D with state-of-the-art technology
2. Continuous research for new items
3. Global market expansion

UPT Organization



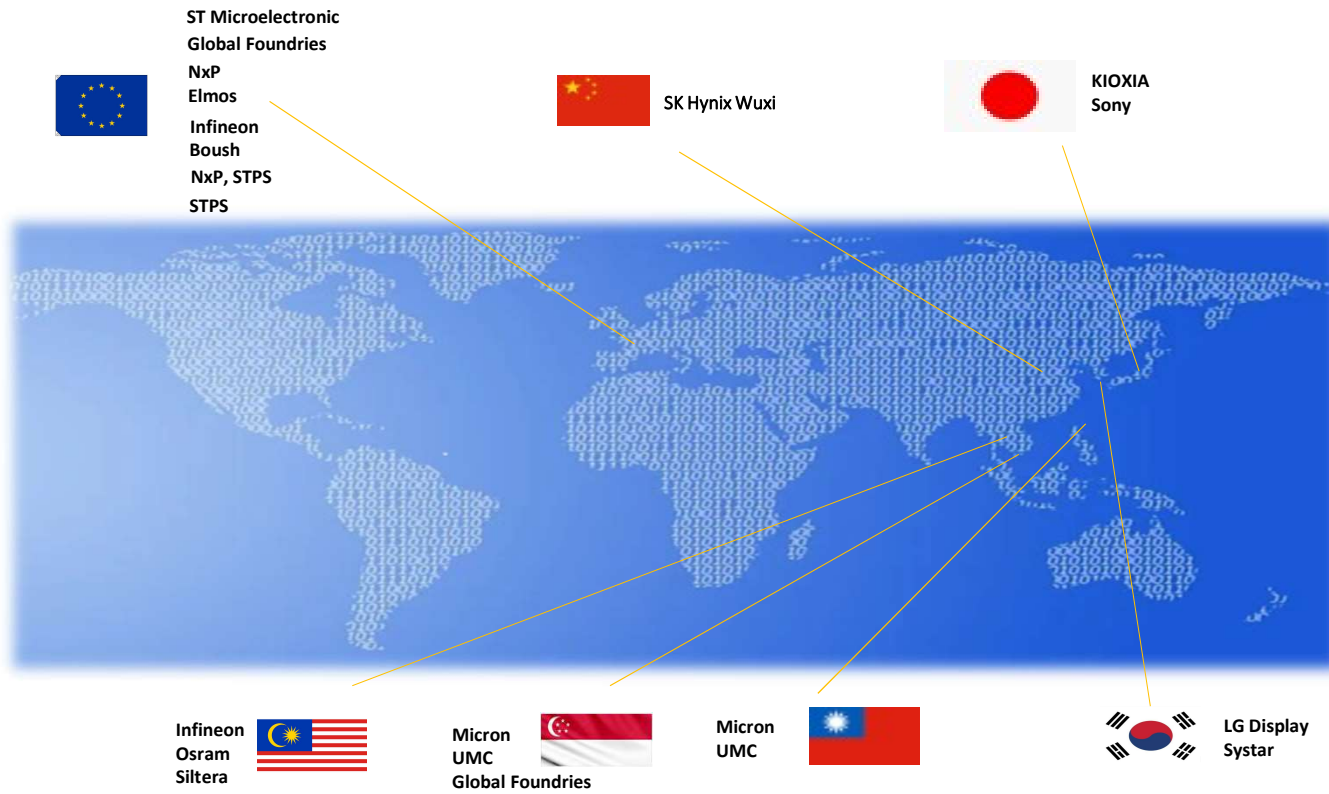
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Beyond Expectations with **Best Quality**

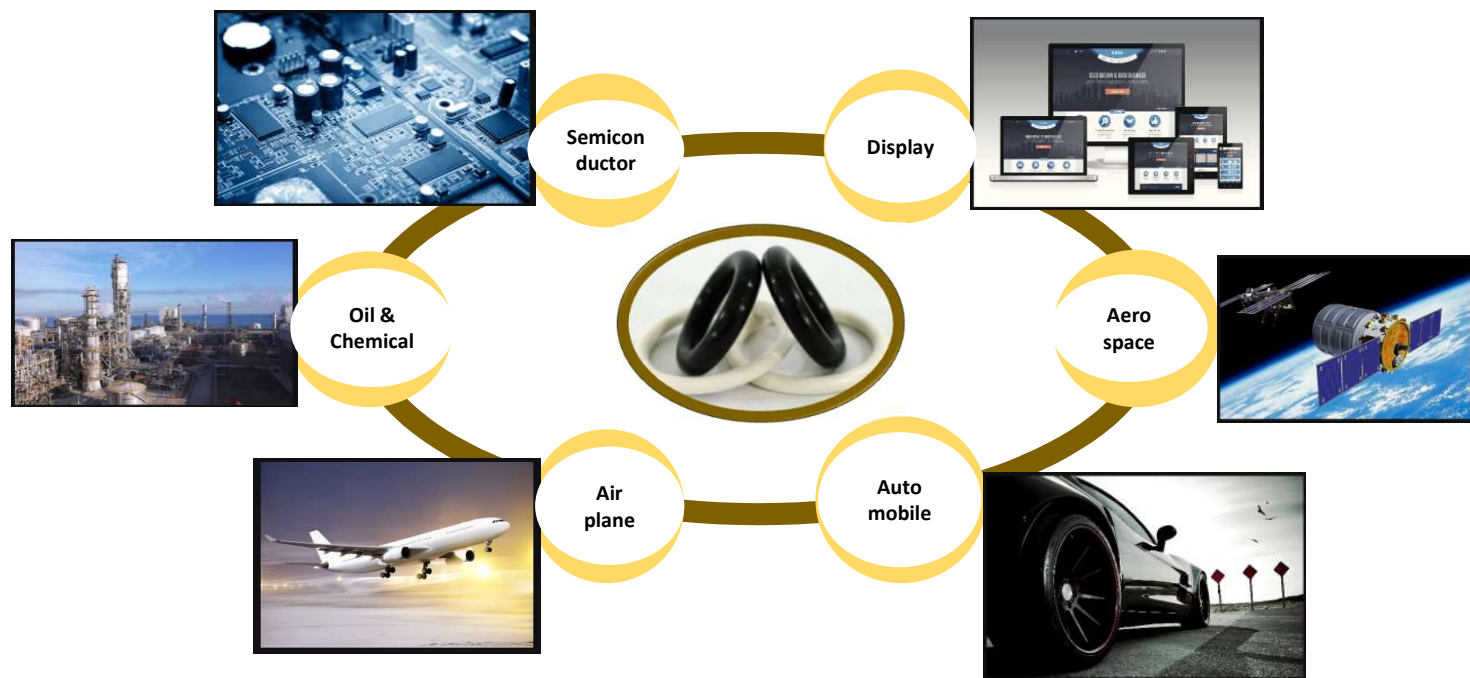


Total employee : 16 (2024.11)

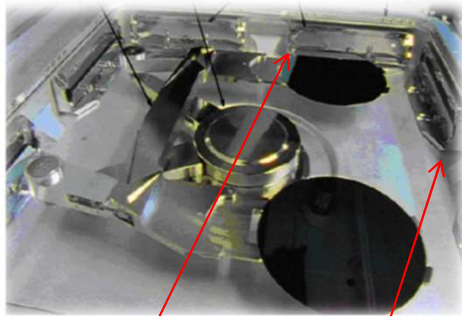
UPT Customers



UPT Business Field



UPT Specialized Product – Sealing product

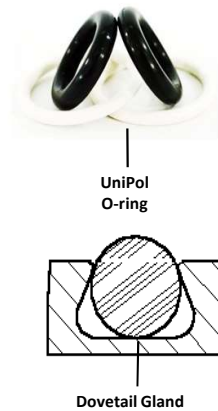


■ PURPOSE

- ✓ Lower contamination & longer life time seals for vacuum chamber.

■ APPLICATIONS

- ✓ Fab (Semiconductor, LCD, LED, OLED, etc...)
- Semiconductor Equipment, LCD, OLED Equipment.
- Chamber Lid o-ring, Gas Inlet, Shower Head, Gate Valve.



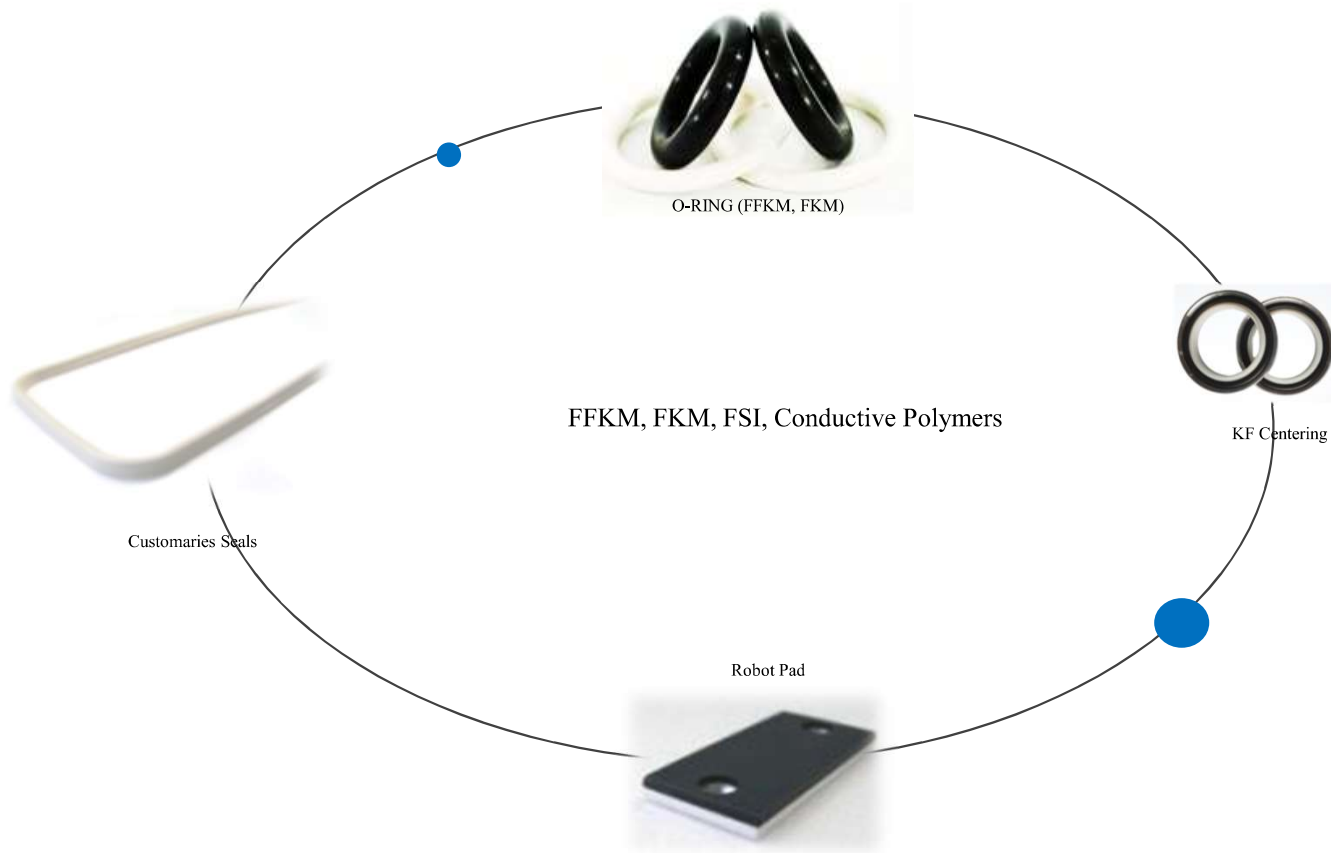
■ QUALITY

- ✓ High purity FFKM (Perfluoroelastomer)
- ✓ No Metallic contents
- ✓ Longer life span - > Save cost & Safe
- ✓ Nano-sized fillers

UPT Specialized Product – FFKM, FKM, ESD Materials



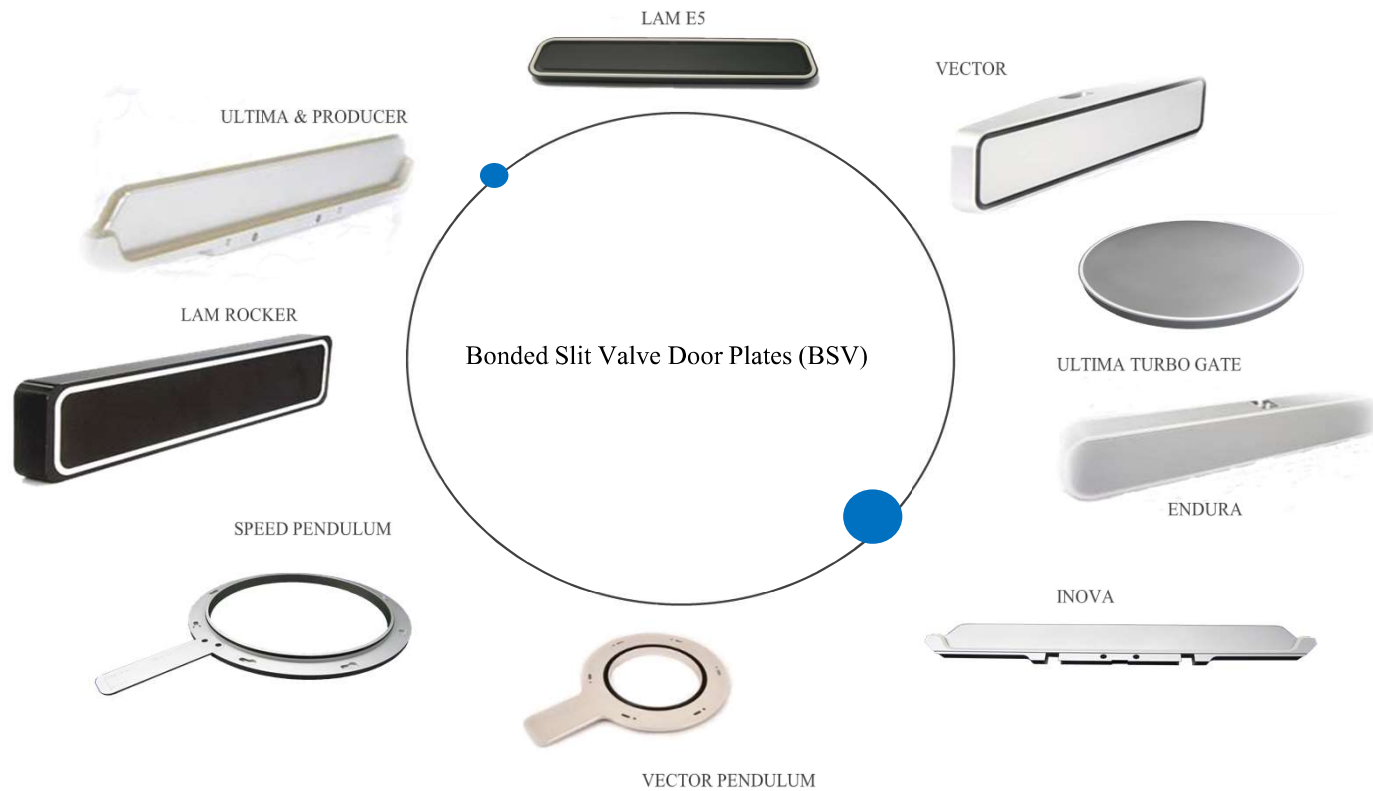
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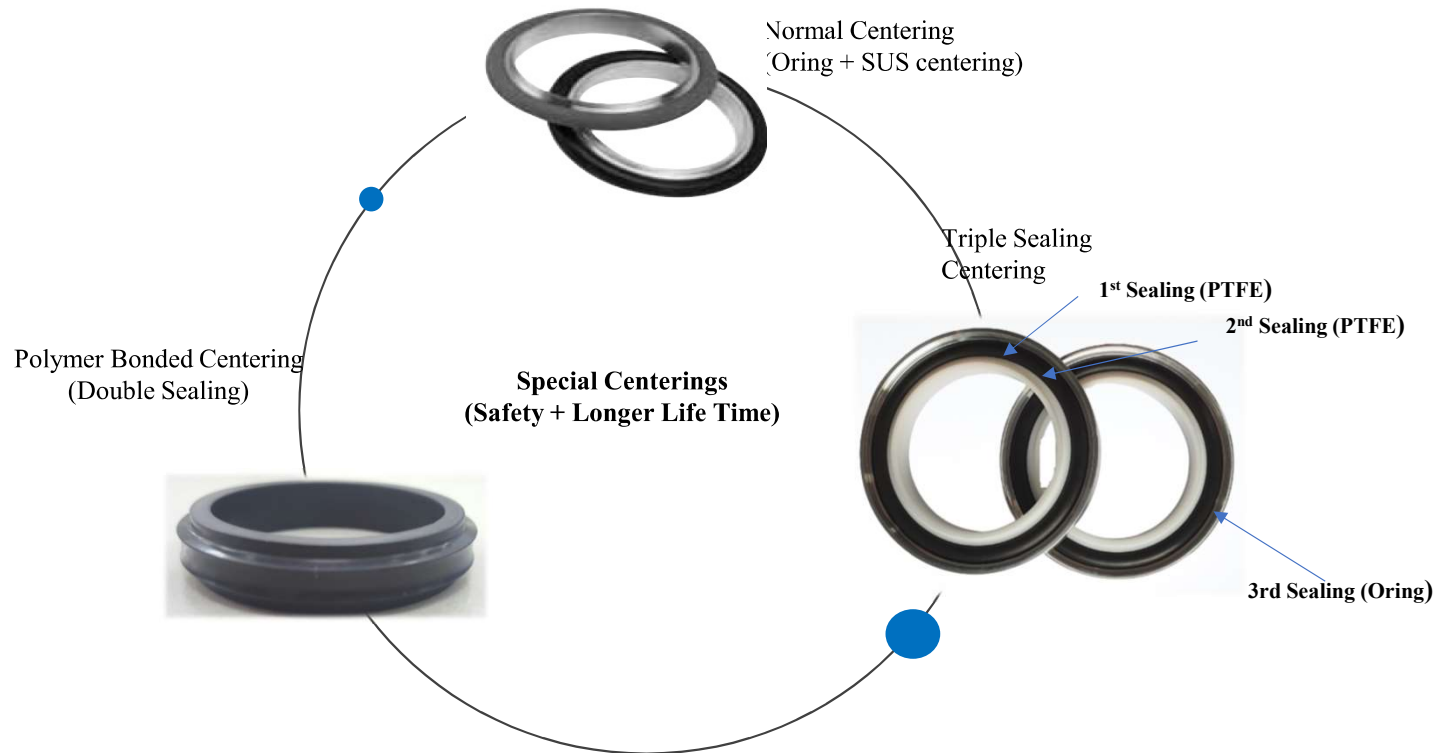
UPT Specialized Product – Bonded Door Plates



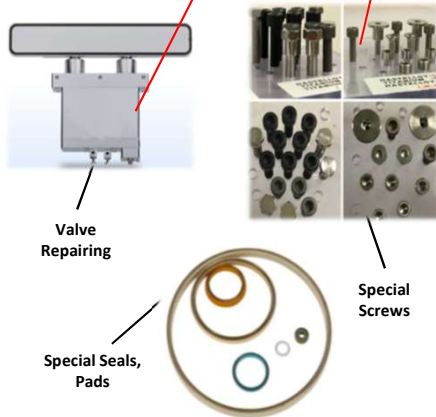
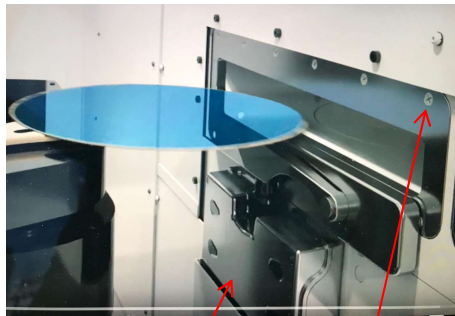
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UPT Specialized Product – Centering



UPT Specialized Product – Spare Parts



■ PURPOSE

- ✓ **Durable Spare Parts with Competitive Cost & longer life time .**

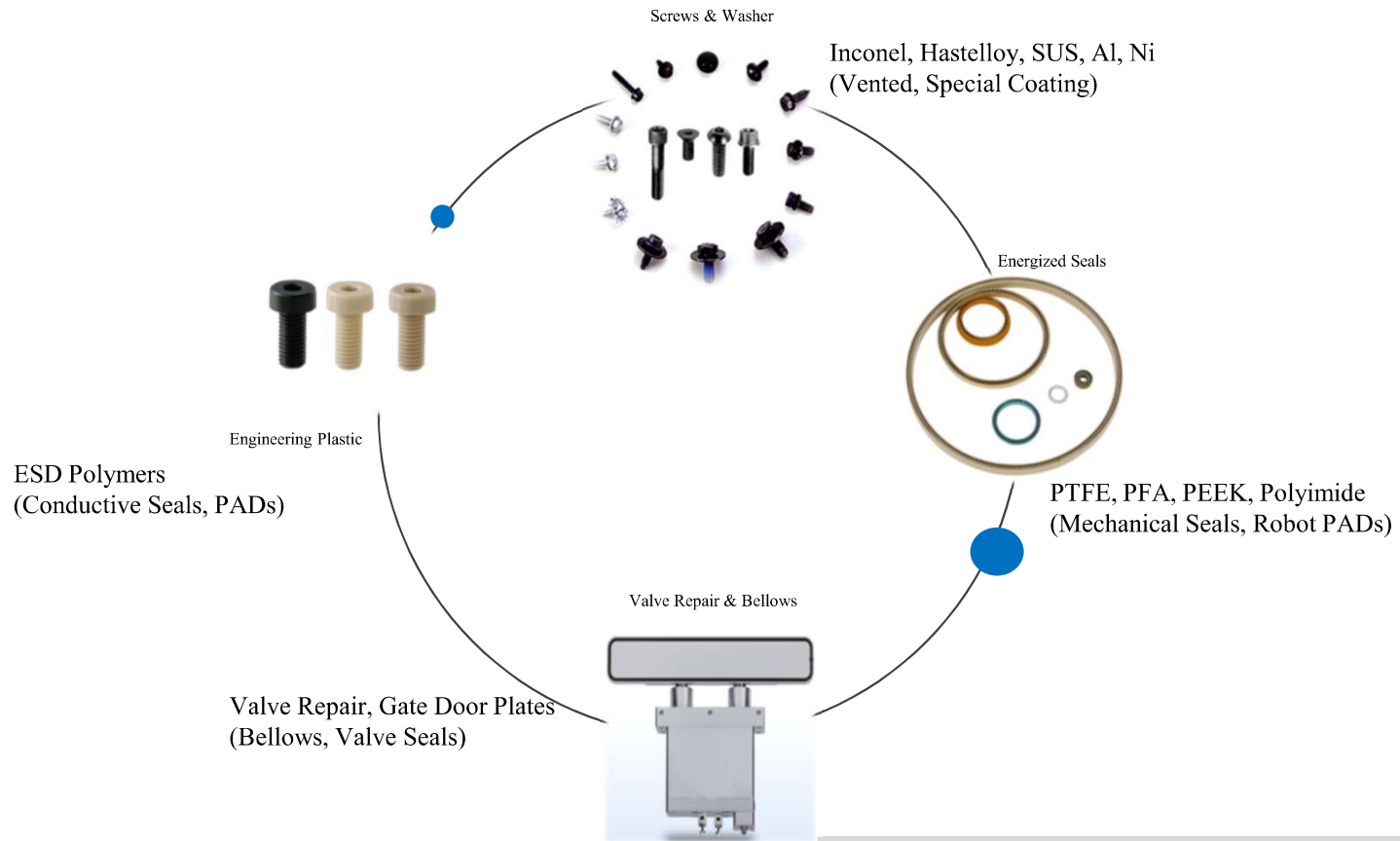
■ APPLICATIONS

- ✓ Fab (Semiconductor, LCD, LED, OLED, etc...)
- Semiconductor Equipment, LCD, OLED Equipment.
- Chamber Gate Valve, Slit Valve, Sub-fab facility parts, Pump, Gas Valves, Gas Inlet.

■ QUALITY

- ✓ High Durability Spare Parts
- ✓ Cost Effective
- ✓ Longer life span - > Save cost & Safe
- ✓ Shorted Lead Time

UPT Specialized Product – Spare Parts



UPT Production Equipment



SPEC		
MODEL	1P 1SET	
Company	Korea	
Volt	380V	
Size	3676*1982*2230	
Spec	Heat plate	700*700 (2EA) 550*550 (1EA)
	Heater Capacity	28.8Kw
	Motor Capacity	15Kw
Location	Clean Room	
Calibration	1 yr.	



SPEC		
MODEL	2P 1SET	
Company	Korea	
Volt	380V	
Size	3450*1730*2160	
Spec	Heat plate	400*400
	Heater Capacity	21.6Kw
	Motor Capacity	11Kw
Location	Clean Room	
Calibration	1 yr.	

Press Molding Machine

UPT Production Equipment



DNM 500



MAZAK 530C



MYNX 7500



VM5400



WIA F400

VERTICAL MACHINING CENTER

Description	Unit	DNM 500 (1EA)	MAZAK 530C (1EA)	MYNX 7500 (1EA)	VM 5400 (1EA)	WIA F400 (1EA)
Table size	mm	1200X540	1300X550	1600X750	1200X540	1000X450
Speed	rpm	8,000	12,000	12,000	8,000	8,000
Lange (X/Y/Z)	mm	1000/500/500	1020/500/500	1500/750/750	1000/500/500	800/400/400
Table Speed (X/Y/Z)	m/min	18/18/18	42/42/42	15/15/15	15/15/15	32/32/32
Tool Capacity	EA	30	30	30	30	25

UPT Production Equipment



BAKE OVEN

Specification		
MODEL	QM240 * 2 EA	
Company	xx	
Volt	220V	
Size	750*680*1400	
Spec	Volume	450*450*500
	Temp. Range	RT~ 350°C
	Capacity	Max 3Kw
Location	Oven Room	
Calibration	1 yr.	



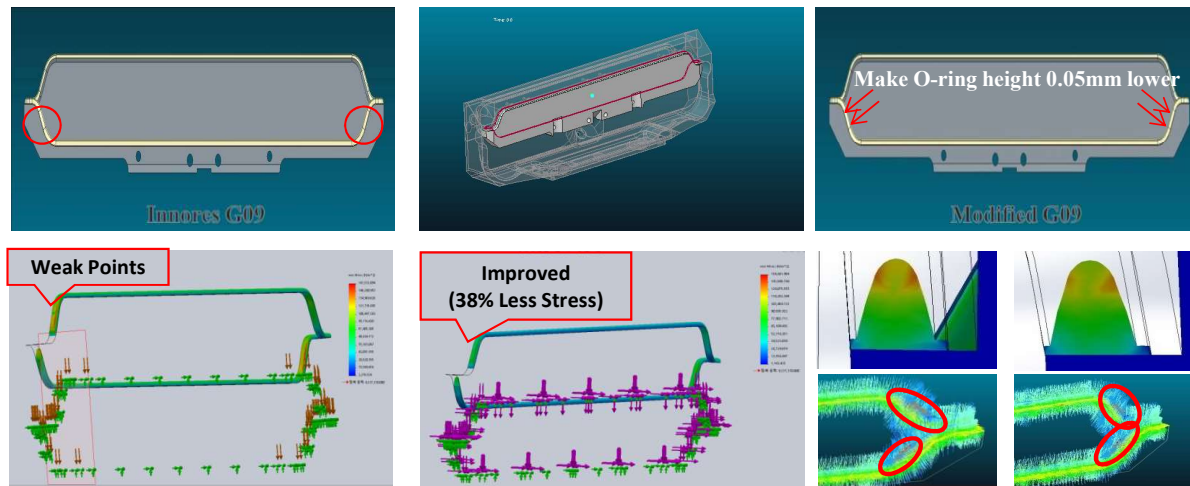
Extrusion Machine

Specification		
MODEL	2 Cylinder	
Company	xx	
Volt	380V	
Size	1800*1300*2400	
Spec	Extraction Volume	500ml*2
	Temp. Range	1.2Kw
	Capacity	15Kw
Location	Clean Room-Extractor	

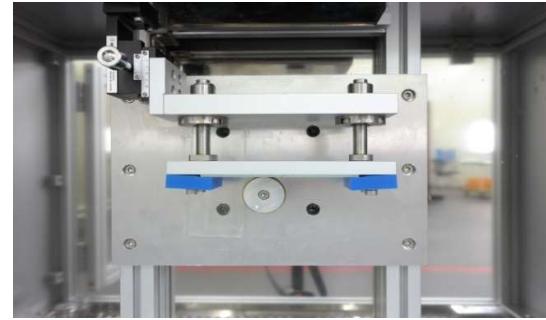
UPT Analysis & Improvement Capability

Using Creo 2.0 (Pro-E) 3D Program, the cause of the problem is analyzed and the design is changed accordingly to solve the problem.

Ex) Ultima & Producer Door Improvement



UPT R&D Equipment



Abrasion Test Machine



Plasma Test Equipment

UPT FFKM Materials



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	Process Type	Typical Seal Temperature	Typical Process Environment	Suggested Compound	Typical Applications
Plasma Processes	HDPCVD PECVD	25~650°C	TMS,TEOS,SiH4, NH3,SiF4,O2,C2F6, N2O,CF4	UPC-01 (Amber FFKM)	-Dynamic : Door seals, Gate valves, Pendulum valves - Static : Chamber lid seals, Shower head, RPS, Pedestal (heater) seals, Gas inlets Window seals, Center rings Carrier : Wafer/FPD, Support/Transport
	Etching	25~200°C	CF4,C3F8,CHF3,SF6,O2,H2,HBr, BCl3,CCl4,Cl2	1160W (White FFKM) IK-700 (White FFKM) DIR-140 (Clear FFKM)	
	Ashing/ Stripping	25~250°C	O2,CF4,CHF3, NH3,H2O Vapor Forming Gas	1160W (White FFKM) IK-700 (White FFKM) IK-300 (Black FFKM)	
Thermal Processes	SACVD	25~350°C	TEP,TEBO, TEOS,O3,NF3	UPC-01 (Amber FFKM) DIR-140 (Clear FFKM)	-Quarts chamber seal -Fittings -Center ring -Pendulum valve seals
	Metal CVD ALD LPCVD	25~600°C	Organic precursors,Wf6,TiCl4,SiH4,HF F2,Cl2,CIF3,NF3,H2O Vapor,O2,O3	UPC-01 (Amber FFKM) DIR-140 (Clear FFKM)	
	Oxidation Diffusion	150~800°C	N2,O2,H2O, HCl,Cl2	1160B (Black FFKM) UPL-80 (Black FFKM)	
	Lamp Anneal RTP	150~300°C	Resistance to IR absorption	UPL-80 (Black FFKM)	
Wet Processes	Strip, Etch, TMAH, Air Knife , Cleaning	25~180°C	Stripper, Etchant, DI, etc	1160W (White FFKM) UPC-01 (Amber FFKM)	-Each Conveyor Rollers/side rollers -Drain seals -Seals for chemical containers -Fittings -Seals for filters/connectors
SUB-FAB (Facility)	Exhaust Line Gas Inlets Scrubber	Room Tem~300°C		1160W (White FFKM) IK-78 (Hybrid FFKM)	Normal Centering (SUS+FKM or FFKM) Bonded Centering (FKM + FKM or FFKM) PTFE Centering (PTFE + FKM or FFKM) + AL outering)

THANK YOU



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