

GASTRON

来自韩国的世界一流气体检测仪制造商
研发, 生产, 提供和维护气体泄漏检测系统解决方案

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安多科技股份有限公司

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GTD-2000Ex

安多科技股份有限公司

1.概况

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1-3. 公司历史

1-4. 公司架构

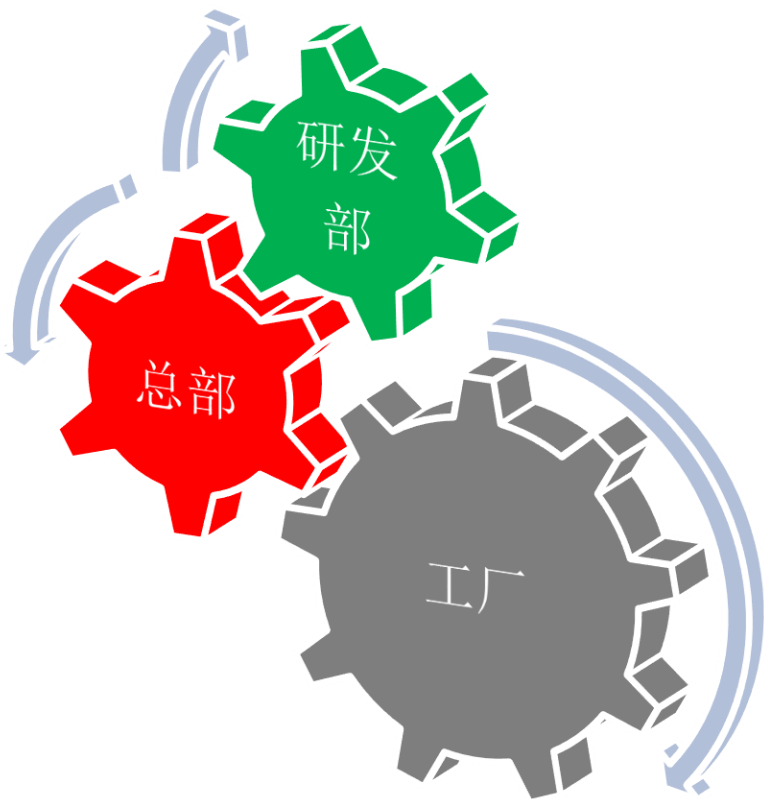


GTD-2000Tx

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1-1. 公司综述



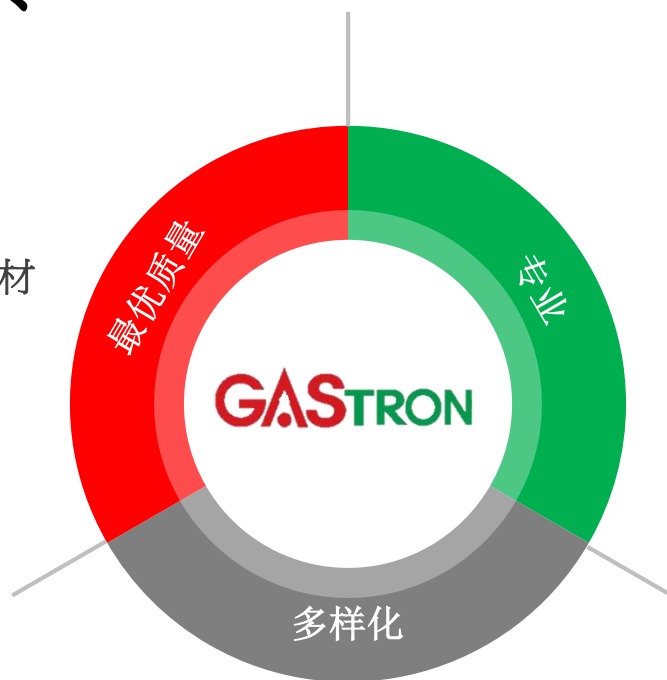
GASTRON 有限公司

成立时间	6. 26. 1992
CEO	Dong Jin Choi
注册资金	US\$ 500,000
员工人数	170余名员工
主要产品	工业气体泄漏检测仪 气体检测系统

1-2. 公司愿景

最优质量

- 根据特定要求定制产品材质
- 专业检测资质



专业

- 传感器自生产
- 多种传感器应用
- 分段验证系统

多样化

- 多种应用以及满足客户特殊定制要求
- 差异化产品



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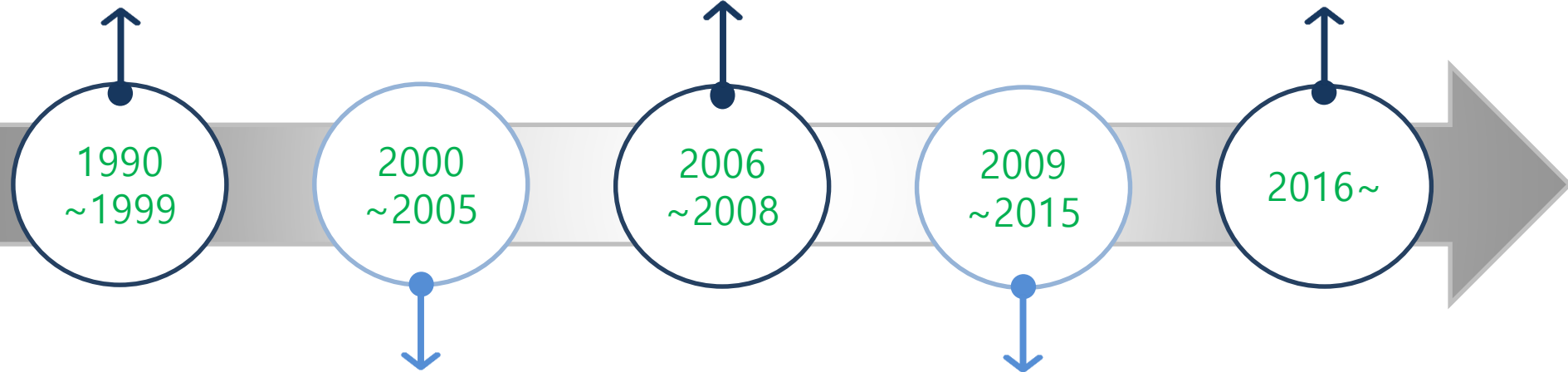
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1-3. 公司历史

- HWASUNG CO., LTD 成立
商务部长称赞其为卓越的产品
- ISO 9001认证

- 韩国第一个生产红外气体检测仪
- ATEX, IECEx 认证

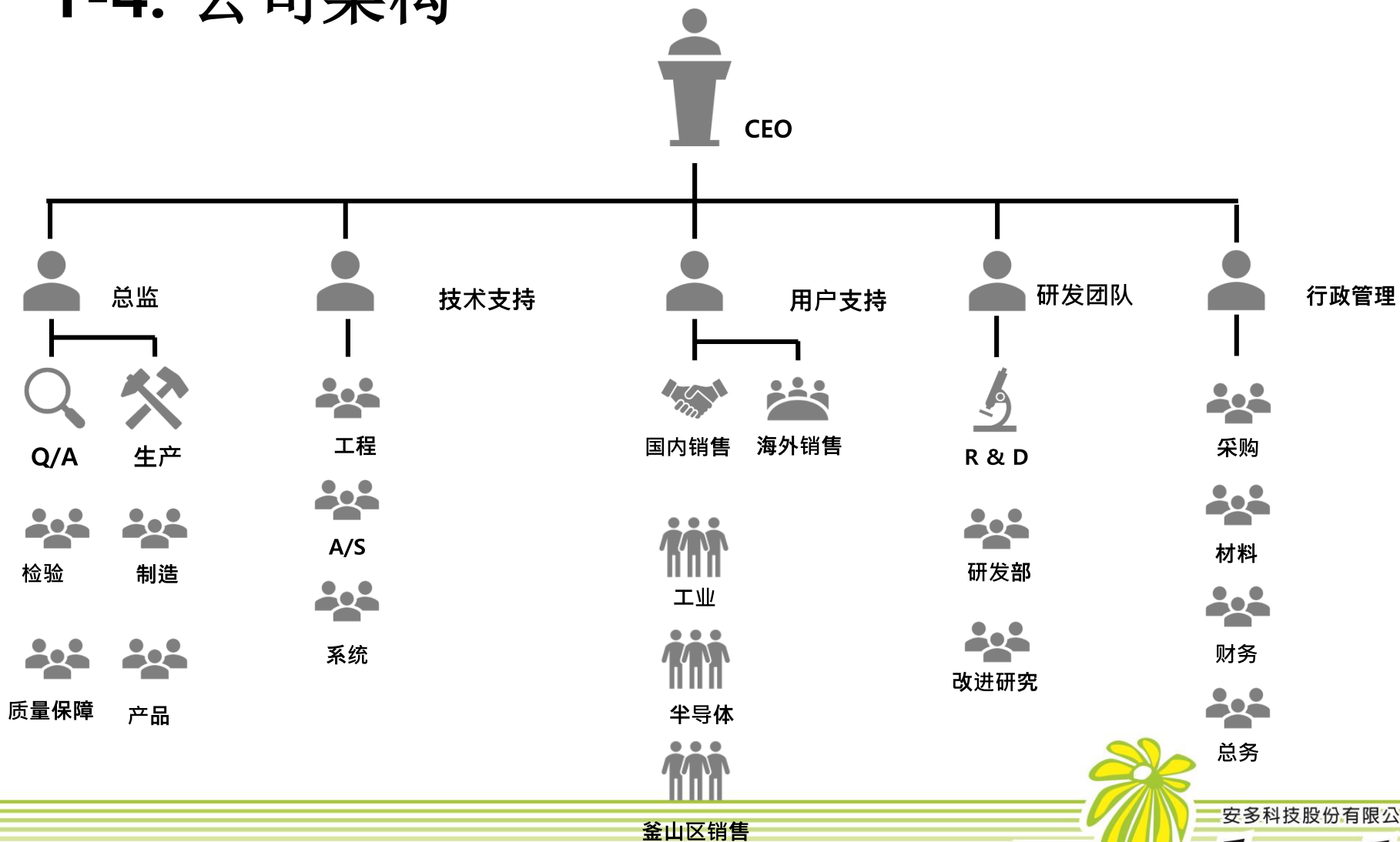
- ISO14001 认证
- OHSAS18001 认证
- 与英思科公司形成战略合作伙伴
- 更小尺寸的防爆仪表GTD-5100F



- 公司名称改为GASTRON
- 总部迁移至更大的办公楼
- 京畿道的卓越公司

- HART 通讯注册会员
- MED, BV, DNV, ABS, SIL2 认证
- 建立 Young-Nam 分支
- 生产处出气体检测仪(GTM-1000/2000)

1-4. 公司架构



2.销售

2-1. 年销售效益

2-2. 韩国以及海外销售

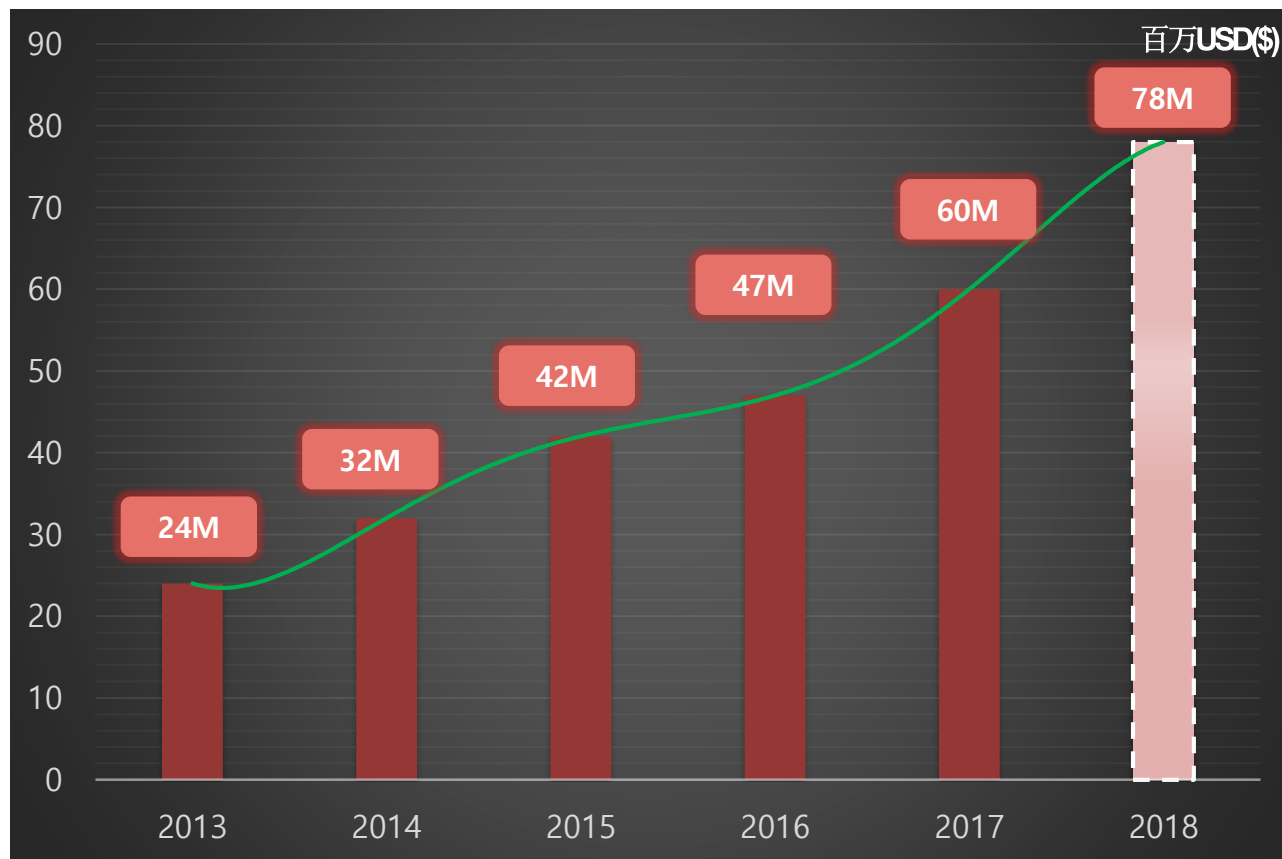


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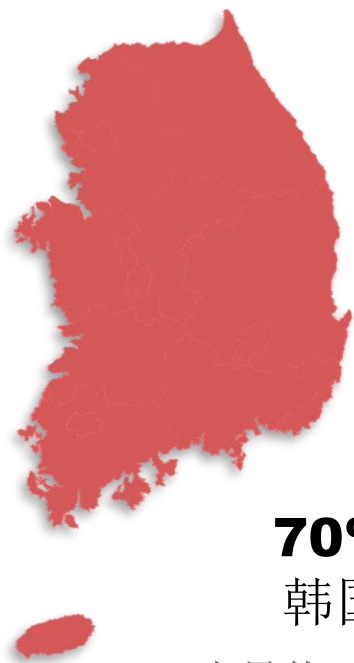
2-1. 年销售效益



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2-2. 韩国& 海外销售



70%
韩国

- 半导体
- 韩国**EPC**项目
- 工业
- 钢铁



30%
海外

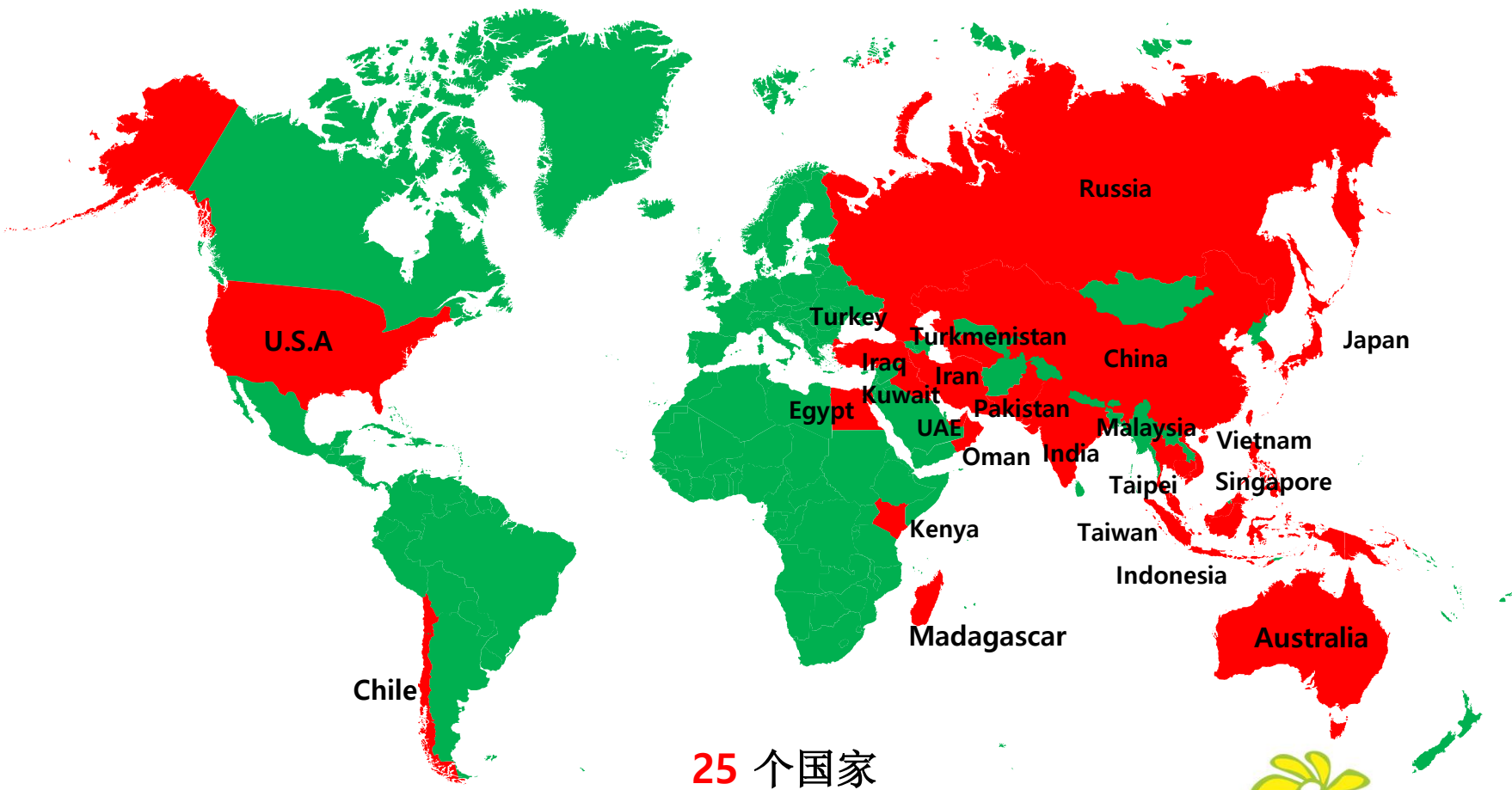
- **EPC**项目
- 分销商销售
- 直销



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2-2. 海外销售



3. 产品

3-1. 常规气体检测仪

3-2. 特殊规格

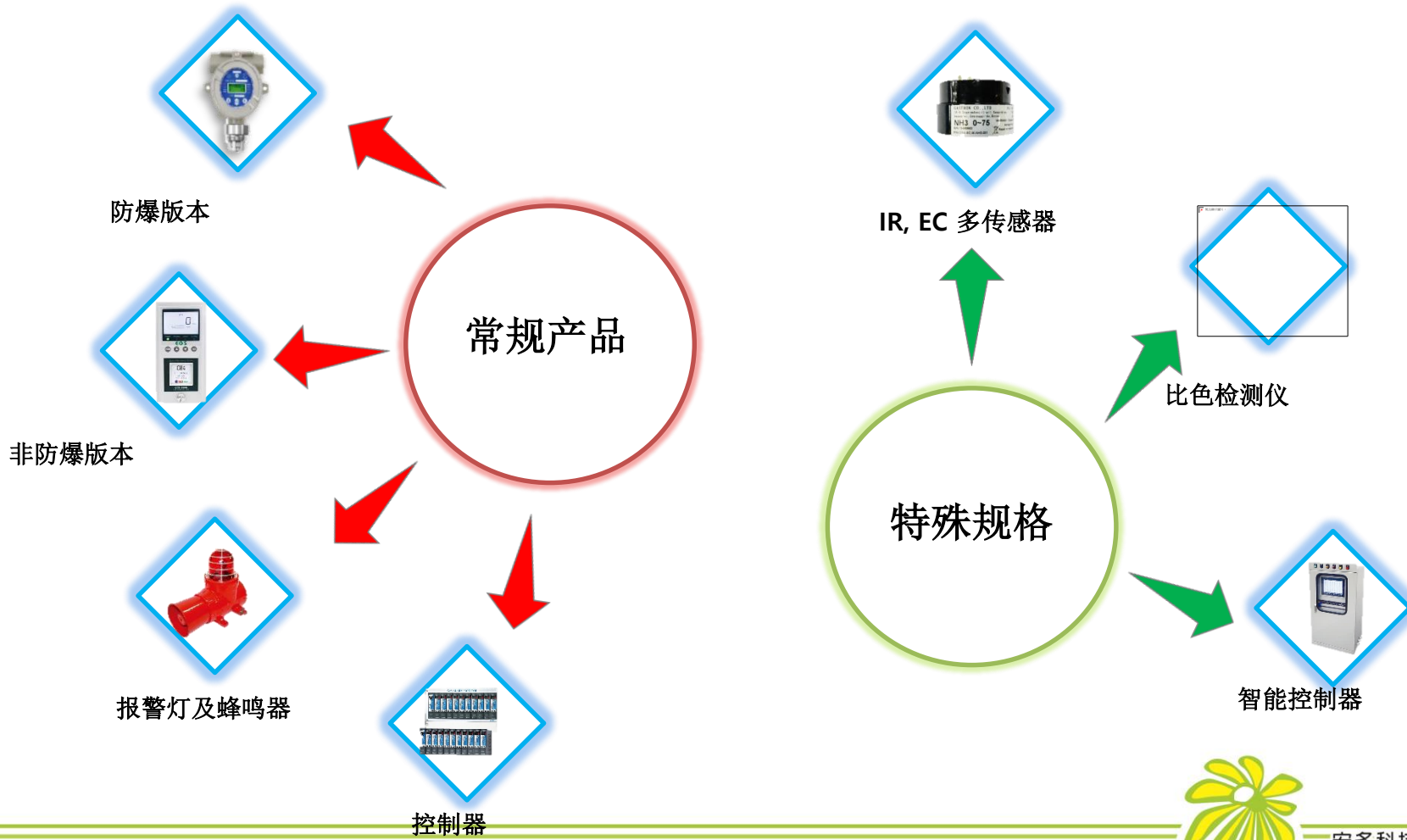
3-3. 新产品



GIR-3000A

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3. 产品



3-1. 常规气体检测仪



1. 防爆版本

GTD-5000Ex, GTD-5000F Tx
GTD-3000A, GIR-5000 等11种

2. 非防爆版本

GTD-5000Tx, GTC-200A
GTC-200F, GTC520F 等6种

3. 便携式版本

GPD-1000, TX1, MX4 等6种

4. 火焰探测器

GTF-1000, 40/40M, 40/40U 等7种

5. 报警灯及蜂鸣器

GTL-200, BExBE05, MB005 等10种

3-2. 特殊规格



1. 多气体检测仪

GTM-1000(红外 + 电化学)

GTM-2000(电化学)

- 最多同时检测4种气体
- 防止干扰气体干扰

2. 新的防爆型检测仪

GTD-5100F

- 具备泵吸式的防爆型检测仪
- 尺寸小了50%

3. 比色检测仪

- 灵敏的多气体比色检测仪
- 比色检测准确
- ppb 级别

3-3. 新产品



- 第一款四气体的检测变送模块
- IR 型 (G100), EC 型 (G200), 催化燃烧型 (G300) 传感器
- MODBUS, HART etc. 支持多种智能通讯接口

- 第一个在现场建立电化学传感器的生产线
- 第一个在现场生产H₂S半导体类型传感器
- 研发生产出基于纳米技术的H₂, H₂S传感器

- 气体检测仪及火焰探测控制系统
- 最多16段可调整智能显示功能

4. 认证



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5. 客户（海外）



5. 客户（韩国）

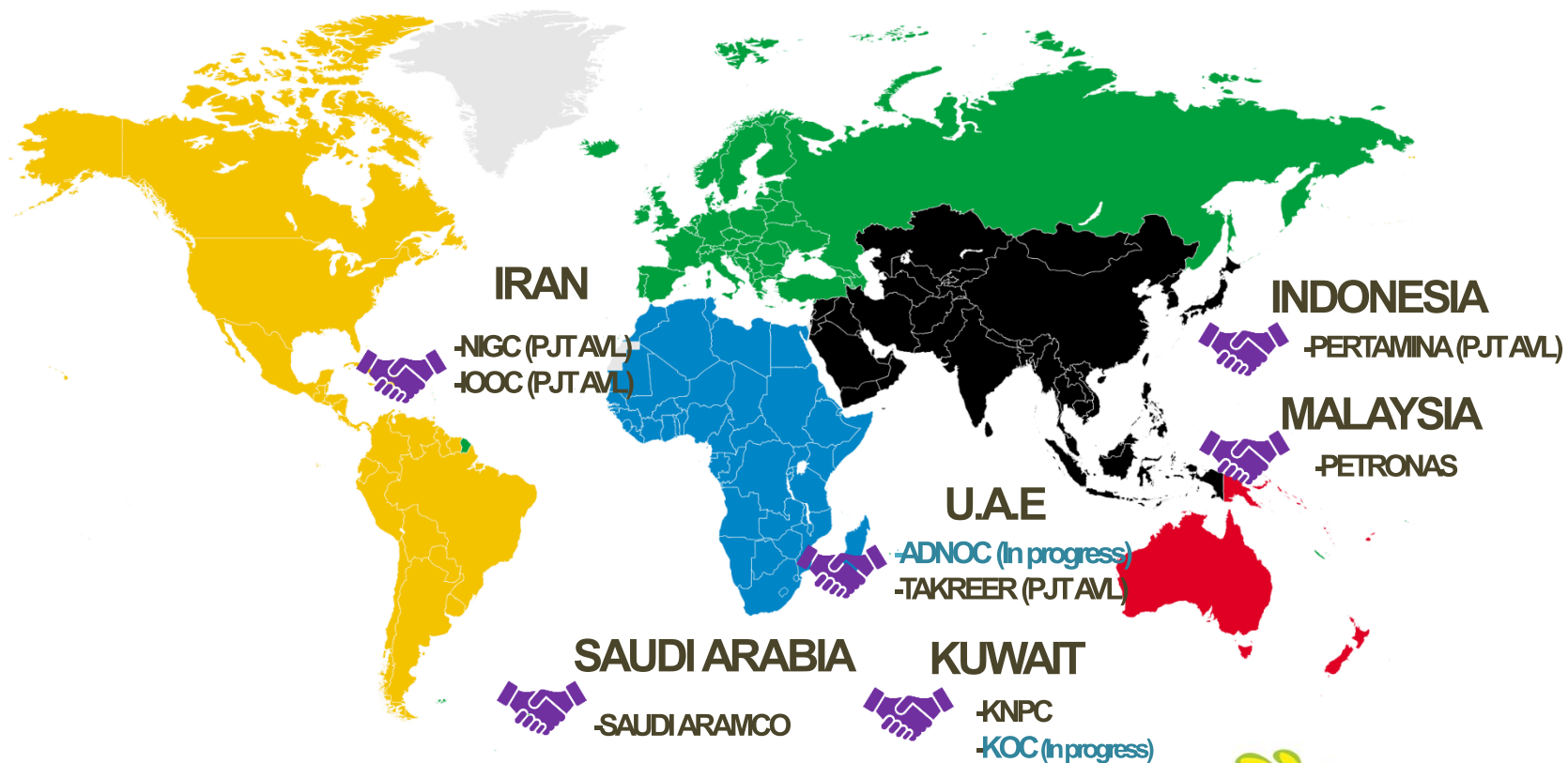
韩国



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5. 客户（其他销售）



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5. 客户(韩国项目)

NO.	客户	国家	EPC	项目	类别	时间
1	SAMSUNG ELECTRO-MECHANICS	Korea	SAMSUNG ELECTRO-MECHANICS	ELECTRONICS	COMBUSTIBLE & TOXIC GAS DETECTOR	2010~
2	LG DISPLAY		LG DISPLAY	ELECTRONICS		
3	KCTECH		KCTECH	SEMICONDUCTOR		
4	LINDE		LINDE	GAS MANUFACTURER		
5	HYUNDAI STEEL		HYUNDAI STEEL	STEEL	STEEL	
6	KOLON LIFE SCIENCE		KOLON LIFE SCIENCE	LAB	HEALTH & MEDICAL	
7	SK METATERIALS		SK METATERIALS	PLANT	GAS DETECTION SYSTEM	
8	SAMSUNG ELECTRO-MECHANICS		SAMSUNG ELECTRO-MECHANICS	PLANT		
9	HYUNDAI MOTOR COMPANY		HYUNDAI MOTOR COMPANY	PLANT		
10	HANWHA CHEMICAL		HANWHA CHEMICAL	PLANT		



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5.客户(韩国项目)

NO.	客户	国家	EPC	项目	类别	时间
11	KRICT	Korea	KRICT	LAB	GAS DETECTION SYSTEM	2010~
12	KDHC		KDHC	PLANT		
13	KOREA WESTERN POWER Co Ltd		KOREA WESTERN POWER Co Ltd	PLANT		
14	KOREA EAST-WEST POWER CORPORATION		KOREA EAST-WEST POWER CORPORATION	PLANT		
15	KUMHO PETROCHEMICAL Co Ltd		KUMHO PETROCHEMICAL Co	PLANT		
16	SK HYNIX		SK HYNIX	SEMICONDUCTOR		2011~
17	AIR LIQUIDE		AIR LIQUIDE	GAS PRODUCTION		
18	LG SILTRON		LG SILTRON	PLANT		
19	SAMSUNG SDI		SAMSUNG SDI	PLANT		
20	KAERI		KAERI	LAB		



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5.客户(韩国项目)

NO.	客户	国家	EPC	项目	类别	时间
21	POSCO	Korea	POSCO	PLANT	GAS DETECTION SYSTEM	2011~
22	KOGAS		KOGAS	PLANT		
23	AIR LIQUIDE KOREA		AIR LIQUIDE KOREA	GAS MANUFACTURER	COMBUSTIBLE & TOXIC GAS DETECTOR	
24	LG ELECTRONICS SORLA		LG ELECTRONICS SORLA	PLANT	GAS DETECTION SYSTEM	2012~
25	KOREA WATER RESROUCES CORPORATION		KOREA WATER RESROUCES CORPORATION	PLANT		
26	TAEKWANG INDUSTRIAL Co Ltd		TAEKWANG INDUSTRIAL Co Ltd	PLANT		
27	LG HAUSYS Ltd		LG HAUSYS Ltd	PLANT		
28	KRISS		KRISS	LAB	GAS DETECTION SYSTEM	2013~
29	SHINSUNG SOLAR ENERGY		SHINSUNG SOLAR ENERGY	SOLAR ENERGY	COMBUSTIBLE & TOXIC GAS DETECTOR	
30	SK INNOVATION		SK INNOVATION	REFINERY	GAS DETECTION SYSTEM	

5.客户(韩国项目)

NO.	客户	国家	EPC	项目	类别	时间	
31	KOREA SOUTHERN POWER Co Ltd	Korea	KOREA SOUTHERN POWER Co Ltd	PLANT	GAS DETECTION SYSTEM	2014~	
32	KOLON FASHION MATERIAL Inc		KOLON FASHION MATERIAL Inc	PLANT			
33	YUHAN KIMBERLY Ltd		YUHAN KIMBERLY Ltd	PLANT			
34	DOOSAN HEAVY INDUSTRIES & CONSTRUCTION Co Ltd		DOOSAN HEAVY INDUSTRIES & CONSTRUCTION Co Ltd	PLANT			
35	KCC		KCC	PLANT			
36	KISWIRE Co Ltd		KISWIRE Co Ltd	PLANT	GAS DETECTION SYSTEM / SAFETY SHEILDS	2015~	
37	KOLON INDUSTRY INC		KOLON INDUSTRY INC	CHEMICAL			
38	ETRI		ETRI	LAB			ELECTRONICS TELECOMMUNICATIONS
39	POONG SAN Co Ltd		POONG SAN Co Ltd	PLANT			GAS DETECTION SYSTEM
40	LG LIFE SCIENCES Ltd		LG LIFE SCIENCES Ltd	PLANT			



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5.客户(韩国项目)

NO.	客户	国家	EPC	项目	类别	时间
41	LS-NIKKO COPPER Inc	Korea	LS-NIKKO COPPER Inc	PLANT	GAS DETECTION SYSTEM	2015~
42	KOREA HYDRO & NUCLEAR POWER Co Ltd		KOREA HYDRO & NUCLEAR POWER Co Ltd	PLANT	GAS DETECTION SYSTEM	
43	HANWHA-QCELLS		HANWHA-QCELLS	SOLAR ENERGY	COMBUSTIBLE & TOXIC GAS DETECTOR	2016~



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5.客户(海外项目)

NO.	客户	国家	EPC	项目	类别	时间
1	ARNA	Mahdia, Algeria	HYUNDAI ENGINEERING	Ain Arnat 1200MW combined cycle power plant	GTD-2000Ex Combustible (CH4) GTC-200 Receiver Card	11th Oct, 2013
2	LUKOIL Uzbekistan Operating Company	Uzbekistan	HYUNDAI ENGINEERING	CONSTRUCTION OF CPF COMPLEX AND DEVELOPMENT OF KANDYM GROUP OF FIELDS (Gas Detector and Alarm Device)	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (H2S)	26th.Aug.2015
3	STATE CONCERN "TURKMEN GAS"	Turkmenistan	HYUNDAI ENGINEERING	ETHANCE CRACKER UNIT (Gas Detector)	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (CO, O2)	1th.Apr.2015
4	OMAN OIL COMPANY EXPLORATION & PRODUCTION LLC	OMAN	HYUNDAI ENGINEERING	MUSANDAM GAS PLANT Project	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (H2S, CL2)	18th.Sep.2012
5	GAZPROM NEFT	Iraq	SAMSUNG ENGINEERING	EPC CPF PHASE 2 AT BADRA OILFIELD (Gas Detector_1st)	GIR-3000, GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (H2S, SO2, THT, NH3)	15th.Oct.2014
6	PETRONAS	Malaysia	SAMSUNG ENGINEERING	PETRONAS TGAST PHASE 1 (Gas Detector)	GTD-2000Ex Combustible (CH4) Toxic (H2S)	21th.Mar.2014
7	PETRONAS	Malaysia	SAMSUNG ENGINEERING	PETRONAS TGAST PHASE 2 (Flame& Gas Detector)	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (H2S, CO2)	10th.Dec.2014
8	ARAMCO	Saudi Arabia	SAMSUNG ENGINEERING	POWER COGENERATION PLANT COMPANY (Gas Detector System)	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (H2S)	24th.Oct.2014
9	STATE CONCERN "TURKMENGAS"	Turkmenistan	TOYO ENGINEERING (JAPAN, INDIA)	ETHANCE CRACKER UNIT (ECU) (Gas Detection Devices)	GTD-2000Ex Combustible (CH4)	04th.Sep.2015
10	STATE CONCERN "TURKMENGAS"	Turkmenistan	TOYO ENGINEERING (KOREA)	ETHANCE CRACKER UNIT (GSU) (Gas Detector) (Alarm Device)	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (H2S)	04th.Aug.2015

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5.客户(海外项目)

NO.	客户	国家	EPC	项目	类别	时间
11	STATE CONCERN "TURKMENGAS"	Turkmenistan	TOYO ENGINEERING (KOREA)	ETHANCE CRACKER UNIT (PP) (Gas Detector) (Alarm Device)	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (CO, O2)	04th.Dec.2016
12	EGYPTIAN REFINING COMPANY (TAKRIR) S.A.E	Egypt	GS E&C	ERC REFINERY PROJECT (Gas Detectors)	GIR-3000 Combustible (CH4) GTD-2000Tx Toxic (H2S)	ON GOING
13	P.T. Asahimas Chemical (ASC)	Indonesia	HYUNDAI E&C	ASC PHASE-VI PROJECT (Gas Detectors)	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (CL2, VCM, HCL)	9th.Jan.2016
14	P.T. Asahimas Chemical (ASC)	Indonesia	CHIYODA	ASC PHASE-VI PROJECT (Gas Detector)	GIR-3000 Combustible (CH4) GTD-2000Tx Toxic (VCM)	4th.Mar.2016
15	PETRONAS	Turkmenistan	HYUNDAI ENGINEERING	GAS TREATMENT PLANT ONSHORE GAS TERMINAL (GTPOGT) EXPAN SION AND MODIFICATION FOR GARAGOL DENIZ WEST OIL DEVEL OPMENT PROJECT (Gas Detector)	GTD-2000Ex Combustible (CH4)	18th.Aug.2015
16	Arabian Amines Company	Saudi Arabia	HYUNDAI ENGINEERING	AAC Ethyleneamines Project	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (NH3, EDA, EDC)	2rd.Oct.2009
17	Turkish Petro. Rep. Co.	Turkey	GS E&C	IZMIT DHRP Prkject	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (H2S, CL2)	14th.Aug.2009
18	YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS	Bolivia	SAMSUNG ENGINEERING	BOLIVIA YPFB AMMONIA / UREA PROJECT (Gas Detector)	GIR-3000 Combustible (CH4) GTD-2000Tx Toxic (NH3)	30th.Jun.2015
19	ATTOCK REFINERY LIMITED	Pakistan	HYUNDAI ENGINEERING	ARL UPGRADATION PROJECT (Gas Detector)	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (H2S)	8th.Nov.2012
20	MALAYSIAN SYNTHETIC RUBBER, SDN BHD	Malaysia	SAMSUNG ENGINEERING	R1-PROJECT (Gas Detector)	GTD-2000Ex Combustible (CH4)	30th.Oct.2013

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5.客户(海外项目)

NO.	客户	国家	EPC	项目	类别	时间
21	PT. PERTAMINA	Indonesia	GS E&C	CILACAP RESID FLUID CATALYTIC CRACKING PROJECT (Gas Detector)	GIR-3000, GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (H2S)	6th.Nov.2012
22	MARAFIQ EXECUTION TEAM	Saudi Arabia	HANWHA E & C	YANBU2 POWER AND WATER PROJECT (Fire & Gas System)	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (NH3, O2, CL2, PH3)	12th.Mar.2012
23	ENERJISA ENERJI URETIM A.S	Turkey	SK E & C	TUFANBEYLI THERMAL POWER PLANT PROJECT (CO Detection System)	GTD-2000Tx Toxic (CO)	8th.Nov.2012
24	UZ-KOR GAS CHEMICAL LLC	Uzbekistan	HYUNDAI ENGINEERING	USTYURT GAS CHEMICAL COMPLEX UTILITIES & OFFSITES PLANT (Gas Detector)	GTD-2000Ex Combustible (CH4)	7th.Oct.2013
25	UZ-KOR GAS CHEMICAL LLC	Uzbekistan	GS E&C	USTYURT GAS CHEMICAL COMPLEX ETHYLENE PLANT PROJECT (Gas Detector)	GTD-2000Ex Combustible (CH4)	29th.Aug.2013
26	UZ-KOR GAS CHEMICAL LLC	Uzbekistan	SAMSUNG ENGINEERING	USTYURT GAS CHEMICAL COMPLEX GSP, HDPE, PP AND POLYMER PROJECT (Gas & Flame Detector)	GTD-2000Ex Combustible (CH4)	31st.Mar.2014
27	MARAFIQ	Saudi Arabia	HANHWA E & C	Marafiq STG units 5 & 6	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (H2S)	26th.Aug.2015
28	JG Summit Petrochemical Corp.	Philippines	DAELIM INDUSTRIAL	JG Summit Naphtha Cracker Project in Philippines	GIR-3000 Combustible (CH4) GTD-2000Tx Toxic (BENZENE)	29th.Dec.2010
29	TITAN PETCHEM(M) SDN. BHD	Malaysia	Lotte Engineering Construction	T-Project	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (CO)	04th.Nov.2011
30	PT. Petrokimia Butadiene Indonesia	Indonesia	HYUNDAI ENGINEERING.	PBIBDE Project	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (HCL, CO)	16.Jan.2011

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5.客户(海外项目)

NO.	客户	国家	EPC	项目	类别	时间
31	Polysilicon Technology Company	Saudi Arabia	HYUNDAI ENGINEERING	PTC Jubail Polysilicon Project	GTD-2000Ex Combustible (CH4) GTD-2000Tx Toxic (CO, BENZENE)	21. Jul.2011
32	Gas Transmission Company	Bangladesh	HYUNDAI ENGINEERING	Compressor Station Project	GTD-2000Ex Combustible (CH4)	21th.Aug.2012
33	Kenya Electricity Generating Company	Kenya	HYUNDAI ENGINEERING	Olkaria B1 / B2 Project	GTD-2000Tx Toxic (H2S)	09th.Aug.2013



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6. Q & A



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