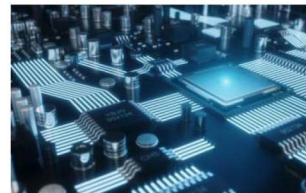


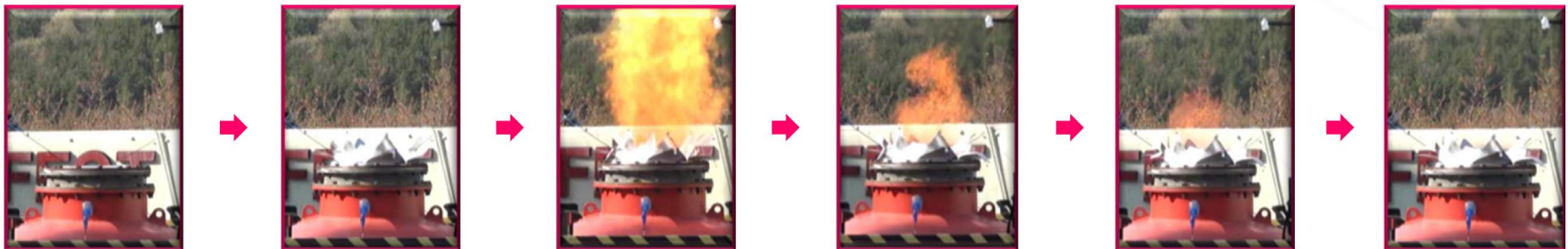
***The Leader of Safety Equipment***



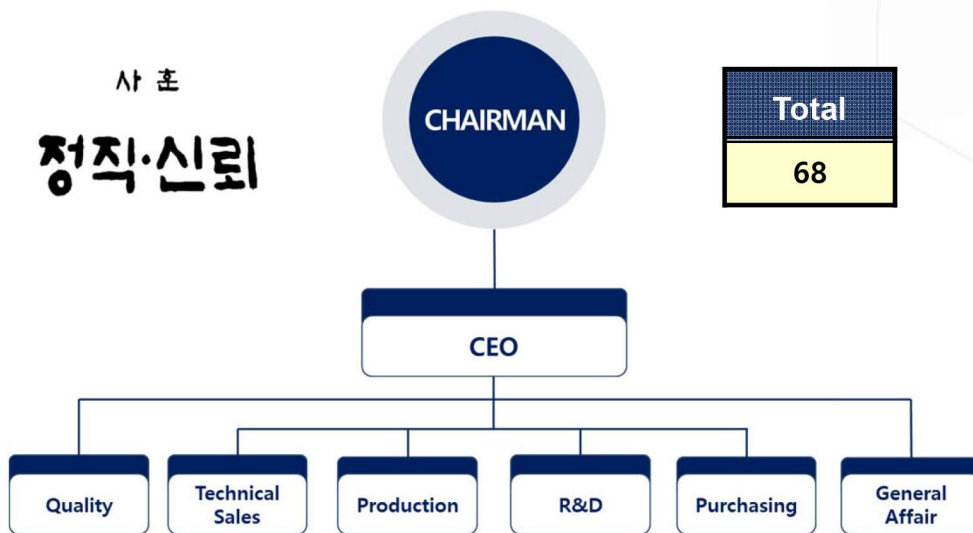
# CONTENTS



1. INTRODUCTION	-----	3
2. HISTORY	-----	4
3. STATUS OF TECHNOLOGY	-----	5~7
4. MAIN PRODUCTS	-----	8
5. STATUS OF FACILITIES	-----	9~10
6. MAJOR CUSTOMERS	-----	11~13
7. AGENCIES	-----	14~15



# 1. INTRODUCTION



Total
68

COMPANY NAME

FDC Co., Ltd.

PRESIDENT

HA-WON, YUNE

JONG-WON, LEE

ESTABLISHED DATE

MARCH. 1991

BUSINESS REGISTRATION NUMBER

615-81-65518

CONTACTS

TEL : +82-(0)55-337-0852

FAX : +82-(0)55-337-0858

URL : <http://www.finedisc.co.kr>

E-mail : [finedisc@finedisc.co.kr](mailto:finedisc@finedisc.co.kr)

MAIN OFFICE & 1<sup>st</sup> FACTORY



129, Golden root-ro  
129beon-gil,  
Juchon-myeon, Gimhae-si,  
Gyeongsangnam-do, Korea.

R&D CENTER & 2<sup>nd</sup> FACTORY



99, Seobu-ro 1293beon-gil,  
Juchon-myeon, Gimhae-si,  
Gyeongsangnam-do, Korea.

# 2. HISTORY



1991 ~ 2010



2011 ~ 2020



2021 ~

**Jump**

## Preparation

- 1991** Established as KSPC(Rupture Disc Part)
- 1999** Fine Disc was split off as the company of related in Rupture Disc
- 2002** Acquired ISO 9001
- 2008** Converted into an incorporation
- 2009** Developed the Size Calculation Program for Rupture Disc
- 2010** Company name was changed to FDC Co., Ltd. Established Corporate R&D Center

## Development

- 2011** Acquired CE (Module B+D)  
Acquired GOST(Russia)
- 2012** Registered for a Korea Hydro & Nuclear Power Co., Ltd.(Class : A137)
- 2013** Acquired ISO 14001  
Acquired OSHAS 18001  
Acquired CE ATEX & IEC-Ex
- 2014** Acquired CSEL(China)
- 2015** Acquired TR-CU(Russia)
- 2016** Acquired ASME UD  
Acquired NBBI  
Acquired KOSHA(PSV)
- 2017** Registered for a Korea Hydro & Nuclear Power Co., Ltd.(Class : Q137)
- 2020** Acquired CE ATEX (Explosion Panel)  
Awarded the 'Promising Small and Medium Enterprise in Export'

- 2021** Acquired CE(Module H)  
Selected as an excellent ESG company
- 2022** The head office and the 1st factory were moved. (Golden root - general industrial complex)
- 2023** Selected as a youth-friendly small but strong company

# 3. STATUS OF TECHNOLOGY

## Intellectual Property Rights

TRADE MARK (Registration: 1 / Application: 2)	DESIGN (Registration: 12)	PATENT (Registration: 32 / Application: 15)	PROGRAM (Registration: 3)

## Quality Certificate

ISO 9001/14001/45001	ASME UD STAMP	NBBI STAMP	KOSHA Safety Cert' (96 Type)	CE (MODULE D/H)
ATEX	IEC-Ex	TR-CU	CSEL	IATF 16949

# 3. STATUS OF TECHNOLOGY

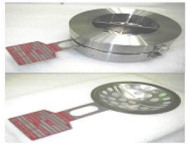
## Research & Development(1)



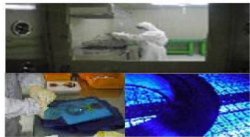
**N2 BLANKETING SYSTEM  
(MODEL:KSBKT)**  
Development completed  
Oct. 2002



**SCORED TYPE RUPTURE DISC  
(MODEL : KSRS)**  
Development completed  
July. 2004



**REVERSE BUCKLING TYPE  
LOW PRESSURE RUPTURE DISC  
(MODEL: KSRR-LP)**  
Development completed  
Nov. 2007



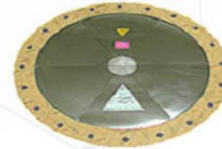
**HIGH CLEANING ROOM**  
Completion  
Mar. 2009



**INFLATOR FOR ADVANCED AIR BAG  
(RUPTURE DISC)**  
Development Schedule  
Jul. 2010 ~ Jun. 2013



**RUPTURE DISC FOR  
MIXING FULE**  
Development completed  
Nov. 2011



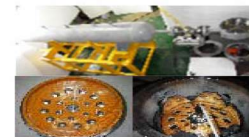
**ULTRA LOW PRESSURE  
RUPTURE DISC**  
Development completed  
Jan. 2003



**DOUBLE ACTION TYPE  
RUPTURE DISC  
(MODEL: KSROD)**  
Development completed  
Oct. 2007



**BURSTING TEST SYSTEM**  
Development completed  
Nov. 2008



**RUPTURE DISC FOR  
MULTIPLE PULSE**  
Development completed  
Dec. 2010



**RUPTURE DISC FOR WEAPONS**  
Development completed  
Nov. 2011



**RUPTURE DISC FOR  
ROCKET MOTOR**  
Development completed  
Sep. 2012

# 3. STATUS OF TECHNOLOGY

## Research & Development(2)



**RUPTURE DISC FOR  
MULTIPLE ROCKET MOTOR**  
Development completed  
Jan. 2013



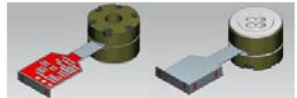
**RUPTURE DISC FOR  
AUTOIGNITOR**  
Development completed  
Nov. 2011 ~ Mar. 2013



**RUPTURE DISC FOR  
PYROSTATERS**  
Development completed  
Apr. 2013



**LARGE SIZE RUPTURE DISC  
KSRBK MODEL**  
Development completed  
Nov. 2011 ~ Mar. 2013



**Bursting Discs for Semiconductor Process  
Equipment(RUPTURE DISC)**  
Development Schedule  
Jul. 2014 ~ Jun. 2016



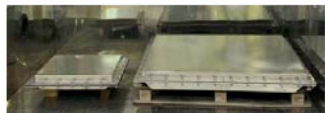
**Safety valve for semiconductor process  
equipment(SAFETY VALVE)**  
(8A~50A)  
Development Schedule  
Jul. 2016~ Dec. 2022



**Flameless Explosion Venting for Inflammable  
Gas(KSEVP)**  
Development Schedule  
Apr. 2017~ Dec. 2019



**Fast Opening Valve(FOV VALVE)**  
Development Schedule  
Apr. 2017~ Dec. 2020



**ESS explosion and venting safety device  
technology and product development for  
eco-friendly new and renewable energy  
(EVA-W)**  
Development Schedule  
Apr. 2020~ Dec. 2022



**Bursting disc fusion safety valve for  
semiconductor process equipment  
(KSSVI)**  
Development Schedule  
Apr. 2020~ Dec. 2022







**Daegu Line 3 train fire suppression system  
parts(Burst disk) and fire suppression device  
prototype development**  
Development Schedule  
Sep. 2020~ Dec. 2022



**25.8kV GIS/EGIS pressure relief valve  
standard model development and fire  
extinguishing device development**  
Jul. 2017 ~ Dec. 2022

# 4. MAIN PRODUCTS

## Main Products

PRODUCTS	IMAGE	CAPACITY	MODEL	MFG. SIZE	BURST. PRESS.	RANGE	REMARK
RUPTURE DISC		3,000 EA/M	KSRR(L)	1/2" ~ 48"	0.1 ~ 150kgf/cm <sup>2</sup>	±3/5/10%	- USE WITH HOLDER - ULTRA LOW PRESSURE
			KSRRK	1/2" ~ 24"	0.35 ~ 20kgf/cm <sup>2</sup>	±3/5/10%	- USE WITH HOLDER
			KSRC	1/2" ~ 56"	0.05 ~ 150kgf/cm <sup>2</sup>	±3/5/10%	- USE WITH HOLDER
			KSRRC	1/2" ~ 56"	0.05 ~ 150kgf/cm <sup>2</sup>	±3/5/10%	- NON HOLDER
			KSRRCH	1/2" ~ 56"	0.05 ~ 150kgf/cm <sup>2</sup>	±3/5/10%	- USE WITH HOLDER
			KSRO	1" ~ 72"	0.05 ~ 35kgf/cm <sup>2</sup>	±3/5/10%	- HOLDER OPTION
			KSRO(L)	4" ~ 32"	0.01 ~ 0.15kgf/cm <sup>2</sup> (100 ~ 1500mmAq)	±5/10%	- NON HOLDER - ULTRA LOW PRESSURE
			KSRBK	1/2" ~ 36"	0.8 ~ 150kgf/cm <sup>2</sup>	±3/5/10%	- USE WITH HOLDER
			KSRSF	1/2" ~ 12"	5 ~ 700kgf/cm <sup>2</sup>	±3/5/10%	- USE WITH HOLDER
			KSRSR	1/2" ~ 32"	5 ~ 50kgf/cm <sup>2</sup>	±3/5/10%	- USE WITH HOLDER
EXPLOSION PANEL		500 EA/M	KSRPR	Up to 1,500 X 2,000 Or Φ3,600	0.01 ~ 0.5kgf/cm <sup>2</sup>	±5/10/20%	- NON HOLDER
			KSRRS				
N <sub>2</sub> BLANKETING SYSTEM		50 SETS/M	KSBKL	1/2" ~ 2"	12.5 ~ 10,000mmAq	-10%	- ORIFICE TYPE
			KSBKT	1/2" ~ 2"	20 ~ 10,000mmAq	-10%	- LARGE VOLUME TYPE
EMERGENCY RELIEF HATCH		30 SETS/M	KSRH	36"	0.1 ~ 0.5barg	±10%	- RUPTURE ROD TYPE



# 5. STATUS OF FACILITIES

## Desing Tool

TOOL NAME	SPECIFICATION	Q'TY
CAD	VER. 2007~2022	27 COPY
2D DRAFTING TOOL	NX MACH POWER DRAF.	1COPY
ANALISYS TOOL	NX NASTRAN-SIMENSE	1 COPY

TOOL NAME	SPECIFICATION	Q'TY
FRS(RUPTURE DISC SIZING)	SPECIAL(FDC PATENT)	10 COPY
FES(EXPLOSION PANEL SIZING)	SPECIAL(FDC PATENT)	10 COPY
3D CAD-MODELING TOOL	UG NX MACH3-SIMENSE	3 COPY

## Manufacturing Equipment(SMART FACTORY-MES)

EQUIPMENT NAME	SPECIFICATION	Q'TY
HYDRAULIC MACHINE	3TON / 7.5TON	2(EACH 1)
HYDRAULIC MACHINE	50TON / 60TON	2(EACH 1)
HYDRAULIC MACHINE	150TON/200TON	2
HYDRAULIC MACHINE	300TON / 500TON	2(EACH 1)
HEATING FURNACE	AMB ~ 600°C	6
FREEZING CHAMBER	0 ~ -120	1
TIG WELDING M/C	150NPS	2
ARC WELDING M/C	IEW-180	2
SPOT WELDING M/C	N/A	3
LATHE	Φ500X2000L etc.	3
BENCH DRILLING M/C	SMD-360	2
HYDRAULIC BOOSTER	1,500kgf/cm <sup>2</sup> / 2,100kgf/cm <sup>2</sup>	2(EACH 1)

EQUIPMENT NAME	SPECIFICATION	Q'TY
COMPRESSOR	350/150/10 kgf/cm <sup>2</sup>	7
FORK LIFTER	1 TON	2
OVER HEAD CRANE	2.8TON	2
LASER WELDING MACHINE	200W PULS LASER	2
LASER MACHINE	FIBER LASER	4
CNC	L300C/12"	4
MCT	VX460/8,000RPM	2
MCT FOR HIGH SPEED MACHINING	NANO-653H/30,000RPM	1
WIRE CUTTING MACHINE	AG600L/0.01	3
SUPER DRILL	NSD600/00.8~3	2
LASER CUTTING M/C	TRUMPF/300W	1
VENTING DEVICE LINE	240SETS/DAY	1

# 5. STATUS OF FACILITIES

## Inspection Equipment

TOOL NAME	SPECIFICATION	Q'TY	MAKER	TOOL NAME	SPECIFICATION	Q'TY	MAKER
BURSTING TEST SYSTEM	0~700.0kgf/cm <sup>2</sup>	3	FDC	HIGH PRESSURE TESTER	300~2000kgf/cm <sup>2</sup>	1	FDC
HIGH SPEED BURST TEST SYSTEM	0 ~ 5000psig	1	FDC	N2 BLANKET SETTING SYSTEM	N/A	1	FDC
HIGH PRESSURE BURST TEST SYSTEM	MAX 1500BARG	1	FDC	ACTUAL TEMP. BURST TEST SYSTEM	-196°C ~ 650°C	2	FDC
HYDRAULIC BURST TEST JIG	MAX 2100BARG	1	FDC	PORTABLE BURST TEST EQUIPMENT	0~8.0kgf/cm <sup>2</sup>	1	FDC
PSV POPPING TEST SYSTEM	SPECIAL	2	FDC	PULSATION CYCLE TESTER	0 ~ 200bar.abs	1	FDC
ACCUMULATOR TESTER	SPECIAL	1	FDC	PRESSURE GAUGE & JIG	0~100kgf/cm <sup>2</sup> etc.	5	WOOJIN/FDC
VMS (VISION MEASUREMENT)	300X200X200	1	HEXAGON	WITHSTAND VOLTAGE TESTER	ST-3353D	1	SEC
3D MEASURING MACHINE	640X600X500	1	ABERLINK	ULTRA SONIC THK. METER	0-150mm	1	DEFELSKO
MICRO METER	0~25mm etc.	5	MITUTOYO	HARDNESS METER	AR936	1	SMART SEN.
SURFACE ROUGHNESS TESTER	-200μm/+160μm	1	MITUTOYO	UV LIGHT (BLACK LIGHT M/C)	220V/S-100	1	TOWOO TECH.
PRESSURE SENSOR	0~2barg etc.	15	DRUCK etc.	HELIUM LEAK TESTER	0.35L/sec etc.	2	ADIXEN etc.
TORQUE WRENCH	196.13N·m etc.	9	KANON etc.	VERNIER CALIPERS	0~150mm etc.	16	MITUTOYO
DIAL GAUGE	12.7mm	1	MITUTOYO	PLUG GAUGE	M55XP1.5 etc.	10	MIKRON
SCREW GAUGE	7/16-20 UNF etc.	8	JPG	HEIGHT GAUGE	0~300mm	2	MITUTOYO
STONE SURFACE PLATE	1500X1000 etc.	3	MIKRO etc.	INFRARED THERMOMETER	JT-650C	1	BLUE BIRD
MICROSCOPE	SZ51	1	OLYMPUS	ELECTRONIC SCALES	MWP-600	2	CAS
SPRING TESTER	SPECIAL	1	TIME	PMI	ALLOY-DC2000	1	INNOV-X SYS'

# 6. MAJOR CUSTOMERS

## Global Networks



# 6. MAJOR CUSTOMERS

## Major Customers(Domestic)

### EPC Plant



### Petro Chemical



### Bio



### Defense Ind.



### Semi conductor



### Chemical



### Ship building



### Electricity Power plant



# 6. MAJOR CUSTOMERS



## Vendor Registered List(Oversea)

### Europe



### America



### Africa



### Asia



### Middle East



### Middle East

