

CONTENTS

- GREETING
- COMPANY PROFILE
- HISTORY
- INTERNAL VIEW
- BUSINESS SCOPE
- ORGANIZATION
- FINANCIAL STATEMENT
- MAJOR PRODUCT
- WORKING PROCESS
- CERTIFICATES
- REGISTRATION SUPPLIER
- OVERSEASE AGENT
- EQUIPMENT
- MAJOR CUSTOMERS
- MAJOR EXPERIENCE
- EXPERIENCE(3YEARS)



Samwon Engineering is a authentic, strong business entity as a forerunner of the research & planning in the field of EJECTOR, VACUUM SYSTEM, DESUPERHEATER, IN LINE HEATER, STATIC MIXER. We have the country's most advanced quality, and produce Customized designs for enterprises.

Our products are used in many industries (Petrochemical Industry, Power Plant, Textile Industry, Water Treatment) to increase efficiency and to achieve the efficient energy application.

In special, Samwon Engineering carries out drastic investment on technical development and manpower resources.

We shall focus on the improvement of existing products and the development of new products.

Therefore, we have become -21st century the world's leading brands EJECTOR- and will be the leader of its kind based on the various experiences and rich fund & techniques.

GREETING

We promise that all of executives and staffs will do our best wholeheartedly to give trust and heart-moving sincerity with one accord.

COMPANY PROFILE



Site Area: 1,514.1 m² (Office: 556.5 m², Factory: 957.6 m²)

- COMPANY : SAMWON ENGINEERING CO., LTD

- CEO : IL DONG KIM

- MAJOR PRODUCT: EJECTOR, DESUPERHEATER,

INLINE MIXER

- ADRESS : 12 Bodeum-4ro, Seo-gu, Inchon-si,

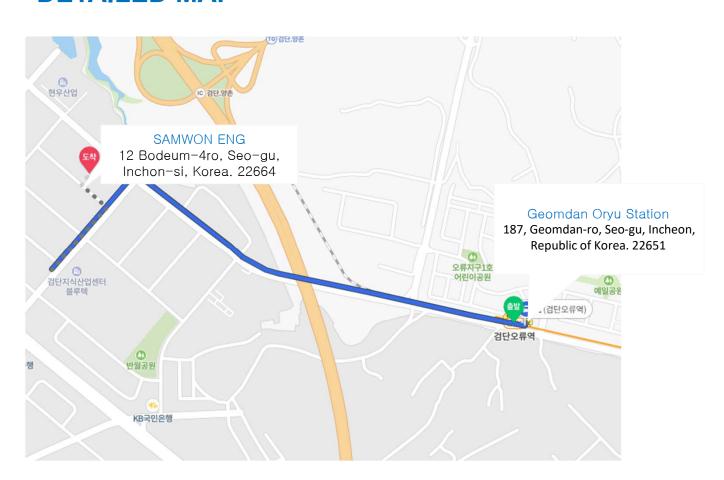
(Office & Factory) Korea. 22664

Tell: +82 32-553-5276 / Fax: +82 32-553-5297

- HOME PAGE : http://samwoneng.kr/

- E-MAIL : samwon@samwoneng.net

DETAILED MAP



INTERNAL VIEW













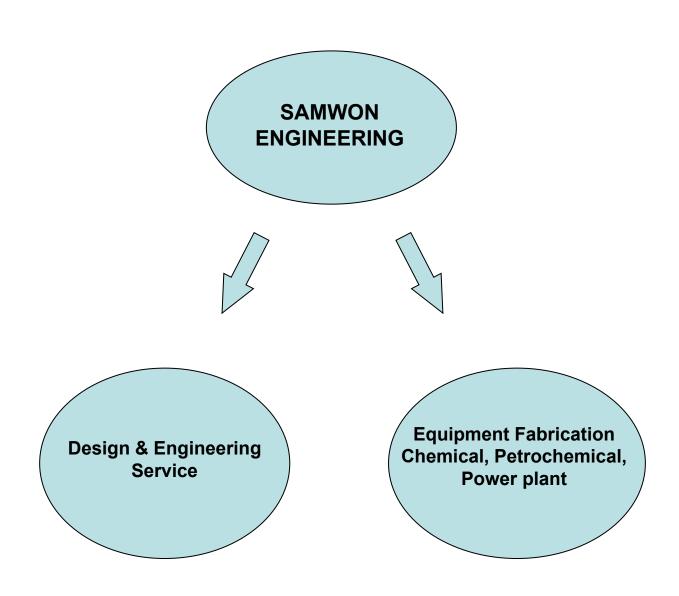


HISTORY

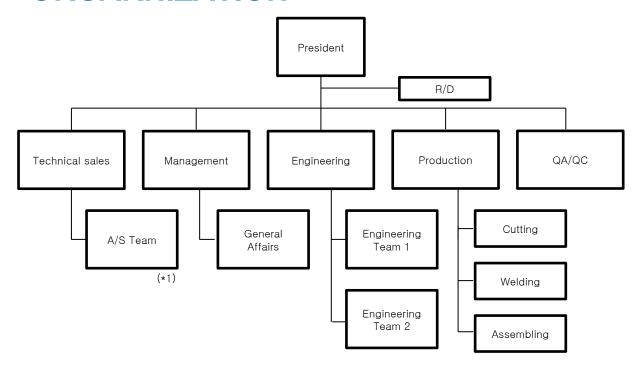
2022	Jun	Registered as a specific equipment manufacturing business, Korea Gas Safety
2021	Apr	Registered supplier of 'ARAMCO'(6000016780)
2020	Sep Jun	ASME U&S Stamp Certification Renewal ISO 9001/14001 2015 Certification Renewal
2019	Apr	Obtained 'Main-Biz' certification
2018	Oct Mar Jan	Agent contract with 'INTERNATIONAL DEVELOPMENT'(in UAE) Agent contract with 'DOME ENGINERERING'(in Oman) Agent contract with 'FLOPERFECT ENGINEERING'(in Singapore)
2017	Oct Oct Jul Jul	ASME STAMP(U, S) 2017 Certification Renewal Registered supplier of 'KOLON ENGINEERING' Registered supplier of 'AMEC FOSTER WHEELER' Promising Export Firm by Small & Medium Business Administration
2016	Dec Sep Jul Mar Jan	Agent contract with 'BASEERA ENGINEERING(in Malaysia)' ISO 9001/14001 : 2015 Certification Renewal Certificate of maintenance qualified company(Korea power plant) Agent contract with 'AL-HASEMI'(in Kuwait) Establishment of R&D center
2014	Dec Jul Jun	ASME STAMP (U, S) Agreement for technology development project(Small and medium enterprises) Moved head office and factory to Inchon-Si
2013	Oct	Obtained ISO 14001:2004 certification
2012	Dec Nov Apr	Agreement for "Family Company "(Cheju National University & Samwon engineering). Registered Gimpo factory. Obtained INNO-BIZZ certification
2011	Sep	Registered research department.
2009	Jan	Registered as 'Samwon ENG' corporation.
2003	Oct Apr	Obtained ISO 9001:2000 certification Renamed to Samwon ENG. From Samwon Engineering Co.
1988	Aug	Established Samwon ENG

BUSINESS SCOPE

"The 21th Century's first class of EJECTOR maker in the world"



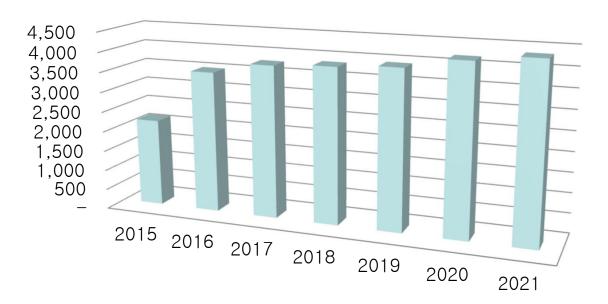
ORGARNIZATION



*A/S Team: After sales service center.(Globally and Locally)

FINANCIAL STATEMENT

Sales



Unit: Million USD

	2015	2016	2017	2018	2019	2020	2021
Sales	2,195	3,537	3,812	3,884	3,965	4,223	4,371

MAJOR PRODUCT

EJECTOR

Air Ejector

Water Ejector

Gas Ejector

Steam Jet Ejector

TVR (Thermo Vapor Recompressure)

Ejector System (Vacuum Unit)



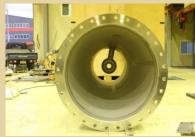


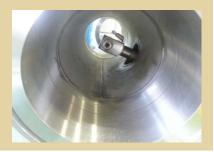


DESUPERHEATER

Single nozzle type Multi nozzle type Venturi type







MIXER

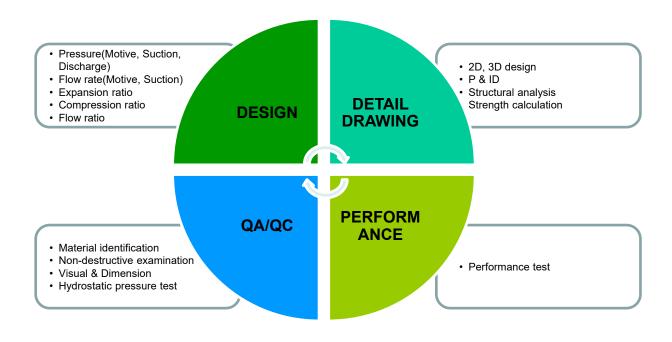
Helical type SMX/SMXL SMV

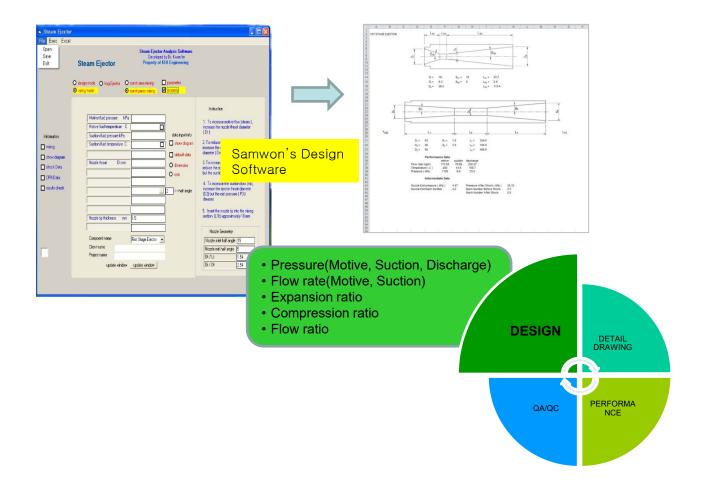


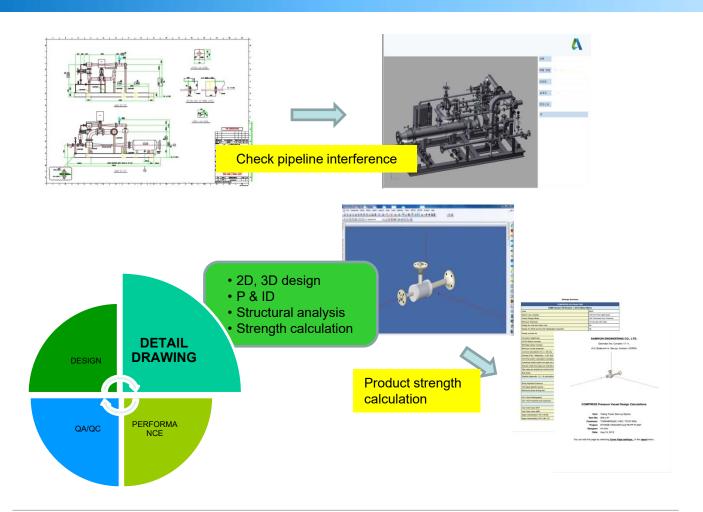


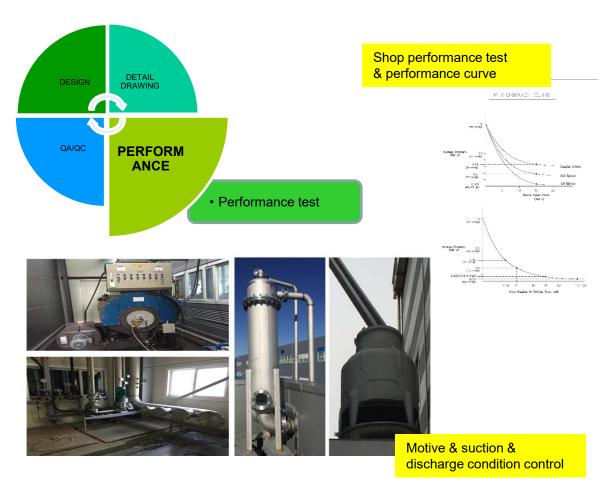


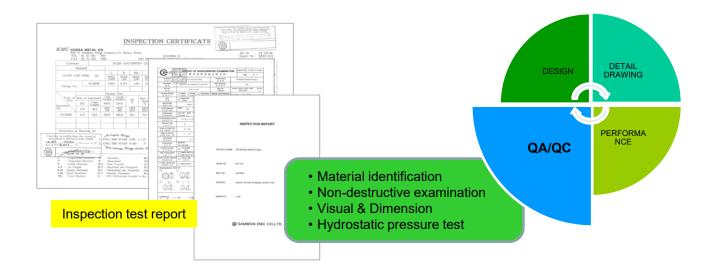
WORKING PROCESS

















Material test



CERTIFICATES

Description	Ref. No.	Certification Authority
CERTIFICATE OF INO-BIZ	R120701-00741	SMALL AND MEDIUM BUSINESS ADMINISTRATION
CERTIFICATE OF MAIN-BIZ	190701-00652	SMALL AND MEDIUM BUSINESS ADMINISTRATION
CERTIFICATE OF MAINTENANCE QUALIFIED COMPANY(Korea Power Plant)	WITHU20160702718	WITH-U
INDUSTRIAL R&D CENTER	2016110039	KOITA
EXCELLENT TECHNOLOGY EVALUATION COMPANY	NICE-2019-77-000277	NICE
ASME CERTIFICATES "U"	48866	ASME
ASME CERTIFICATES "S"	48865	ASME
ENVIRONMENTAL MANAGEMENT SYSTEM (ISO 14001:2015)	E 1729	HSB
QUALITY MANAGEMENT SYSTEM (ISO 9001:2015)	Q 1729	HSB
PROMISING EXPORT FIRM CERTIFICATE	THE 17 TH INCHEON-13	INCHEON EXPORT CENTER, SMBA
Specific equipment manufacturing(KGS)	22-8-01	Korea Gas Safety Corporation











INO-BIZ MAIN-BIZ Certificate of maintenance qualified company (korea power plant)

R&D CENTER

EXCELLENT TECHNOLOGY EVALUATION COMPANY





ISO 9001,14001: 2015





CERTIFICATE

PROMISING EXPORT FIRM Specific equipment manufacturing(KGS)

REGISTERED SUPPLIER

Company	Description	Ref. No.	Date
AMEC FOSTER WHIEELER	Ejectors Vacuum System	503896	2017.07
KOLON ENGINEERING	Static Mixer, Line Mixer	-	2017.10
ARAMCO T	Ejector(Steam, Air, Water)	6000016780 (9COM)	2021.04







AMEC

KOLONG

ARAMCO

OVERSEASE AGENT

Company	Country	Date
BASEERA ENGINEERING	Malaysia	2016.12
FLOPERFECT ENGINEERING	Singapore	2018.01
DOME ENGINEERING	Oman	2018.03
INTERNATIONAL DEVELOPMENT COMPANY	UAE	2018.09
MOUSA A. BAHMAN EST.(MB)	Kuwait	2021.04

EQUIPMENT

1) Production Equipment

Item Name	Manufacturer	Model	Quantity
Lathe	Hwacheon	HL 580*2000GN, HL460*1000	2
Milling M/C	Heunghwan	HHM-1350HUD	1
Drilling M/C	Kyungmin processing	KM-DM23	1
Band sawing M/C	PABALmachine	-	1
Argon welding M/C	Weld line, Shinwoo Tech	AC, DC, 500AD, TIG-500ST *5	2
Arc welding M/C	Daesin Industry	7.5KW	1
Tig(DC/AC) Welding M/C	Perfect	-	1
CO2 Welding M/C	Dewell Tech	500A	1
Oxygen Welding M/C	-	-	1
Plasma Welding M/C	DAIDEN	SC-61C	1
Overhead Crane	bando	7.5TON / 2.8TON / 1 TON	3

2) Inspection equipment.

Item Name	Manufacturer	Model	Quantity
Flow meter	KOMETER	0~150 [㎡] /h	7
Multimeter	KAISE	SK-7718	1
Film thickness meter	QUANIX, POSITECTOR, JFE ADVANTECH	QN-4500-FN, 6000-FNS1, TI-45N	3
Temperature Meter	CENTER	`-200 ~ 1370℃	1
Infrared Thermometer	TESTO, OPTEX	`-30 ~ +400 °C, PT-2LD	2
Thermograph	HANWOOL	0~100 ℃	2
High Pressure Compressor	AIL AIRTECH	100 (Kg/ണ²)	1
Water circulation pump	HYOSUNG HEAVY INDUSTRIES	65 m³ /h x 140m x 60HP	1
Wet Vacuum Pump	CHEONGWON PRODUCTION CENTER	5.5 m³/minx73cm/Hg x 15k w	1
PRESSURE RECORDER	HANWOOL	0~25 MPa	2
Silencer	DB ENG CO., LTD.	-	1
Pressure gage	HISCO	-0.1 ∼ 35Mpa	90
Vacuum pressure gauge	KANE	0~1040 mbar	1
Cylinder bore gauge	KRAIS	13.97~18.034mm	1
Performance test (Steam boiler, Cooling tower, vacuum pump)	Dujin ENG	-	1

MAJOR CUSTOMERS

Overseas company





























Domestic company



LOTTE ENGINEERING & CONSTRUCTION CO., LTD.















SAMSUNG ENGINEERING







Vacuum system

RAPID 5

Two stage, condensing type with shell and tube intercondenser and aftercondenser

Location Johor, Malasia

Capacity: 53.1 kg/hr air & water vapor

Suction P: 25 mmHg

Discharge P: 990 mmHg

A106 (Steam chest, Body), A27

Material: 6 TP316(Jet nozzle),

A516(Diffuser)





S-OIL SUPER PROJECT PACKAGE 2

Two stage, condensing type with shell and tube intercondenser and aftercondenser

Location Onsan, Korea

Capacity: 255.3kg/hr air & water vapor

Suction P: 0.185 kg/cm2 a

Discharge P: 1.38 kg/cm2 a

A106 (Steam chest)

Material : A276 TP316(Jet nozzle)
A312 (Body)

A240(Diffuser)

CHP DCP

Two stage, condensing type with shell and tube condenser(to vacuum pump)

Location Yeosu, Korea

Capacity: 74.6 kg/hr air & water vapor

Suction P: 1.2 mmHg A

Discharge P: 80 mmHg A

SUS316 (Jacket)

Material : SUS316 (Jet nozzle)

SUS316 (Body)

SUS316 (Diffuser)



Vacuum system



Gimcheon Combined Heat and Power Plant(60 MW)

Two stage, condensing type with shell and tube intercondenser and aftercondenser

Location : Kimcheon, Korea

Capacity : 65.3 kg/hr air & water vapor

Suction P : 0.08 bar a

Discharge P : 1.07 bar a

A106 (Steam chest, Body),

Material: A276 TP304(Jet nozzle),

A105(Diffuser)

KIRIKKALE IPP

Two stage, condensing type with shell and tube intercondenser and aftercondenser

Location : Kirikkale Province, Turkey

Capacity: 98 kg/hr air & water vapor

Suction P : 0.034 bar G

Discharge P: 1.06 bar G

A106 (Steam chest, Body),

Material: A479 TP316(Jet nozzle),

A516(Diffuser)





Therma Visayas Energy Project

Two stage, condensing type with shell and tube intercondenser and aftercondenser

Location : Toledo City, Philippines

Capacity: 81.6 kg/hr air & water vapor

Suction P: 25.4 mmHg

Discharge P: 800 mmHg

A106 (Steam chest, Body),

Material: A276 TP316(Jet nozzle),

A516(Diffuser)

Vacuum system

GE3 Project(60 MW)

Two stage, condensing type with shell and tube intercondenser and aftercondenser

Location : Gusan City, Korea

Capacity: 65.3 kg/hr air & water vapor

Suction P : 0.065 kg/cm2 a

Discharge P: 1.07 kg/cm2 a

A106 (Steam chest, Body),

Material: A276 TP304(Jet nozzle),

A105(Diffuser)





RAS DJINET CCPP Project (1131.1 MW)

Two stage, condensing type with shell and tube int ercondenser and aftercondenser

Location : Alger, Algeria

Capacity: 81.6 kg/hr air & water vapor

Suction P : 0.034 bar a

Discharge P: 1.07 bar a

A106 (Steam chest, Body),

Material: A276 TP304(Jet nozzle),

A516(Diffuser)

UCH II EXPANSION Project(136.9 MW)

Two stage, condensing type with shell and tube intercondenser and aftercondenser

Location : Pakistan

Capacity: 98 kg/hr air & water vapor

Suction P : 0.034 bar a

Discharge P: 1.07 bar a

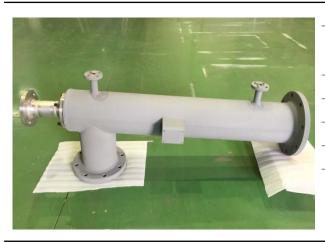
A106 (Steam chest, Body),

Material: A276 TP304(Jet nozzle),

A516(Diffuser)



Ejector



HOU PROJECT

Jacket type steam jet ejector

Location : Ulsan, Korea

Capacity: 1878 kg/hr air & H2S

Suction P : -0.08 kg/cm2 g

Discharge P: 0.11 kg/cm2 a

A312 (Steam chest, Body)

Material A279 TP304(Jet nozzle)

A106 (jacket)

A240 TP316(Diffuser)

ASC Phase-VI PROJECT

Jacket type steam jet ejector

Location : Banten, Indonesia

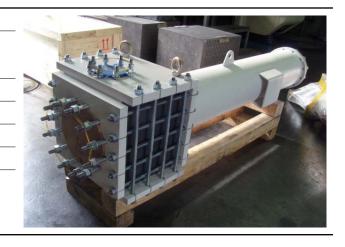
Capacity: 506 kg/hr mixed vapor

Suction P : 0.75 kg/cm2 g

Discharge P: 0.4 kg/cm2 g

Material Graphite + C.S(Body)

Graphite (Jet nozzle, Diffuser)





SK GAS ULSAN PDH PROJECT

Steam jet ejector

Location : Ulsan, Korea

Capacity: 21,445 kg/hr mixed vapor

Suction P : -0.53 kg/cm2 g

Discharge P: 0.135 kg/cm2 a

A312 (Steam chest)

Material : A182 (Jet nozzle)

A240 (Body, Diffuser)

Mixer

Phase-1 SPOF Project

SMX type static mixer

Location : Rabigh, Saudi-arabia

Capacity: 1,800 Ton/hr

SA516(Housing)

Material : SA105(Flange)

SA240-316L(Element)





MODERNIZATION PROJECT

Helical type static mixer

Location : Changwon, Korea

Capacity: 153,790 kg/hr, steam

A240-304H(Housing, Element)

Material : SA182-F304(Socket)

CR PROJECT

Helical type static mixer

Location : Shenyang city, China

Capacity: 100 Ton/hr

SUS316(Housing)

Material : SUS304L(Flange)

TEFLON (Element)



Desuperheater





CPC No.11 DHDS PROJECT

Venturi nozzle type desuperheater

Location : Kaoshiung, Taiwan

Capacity Steam 1,000kg/hr Water 290kg/hr

Turn down ratio: 5:1

A312 TP304H(Body)

Material : A276 TP304(Venturi nozzle)

A182 F304H(Flange)

JAZAN REFINERY AND TERMINAL PROJECT

Spray nozzle type desuperheater

Location : Jazan, Saudi-arabia

Capacity Steam 14,579kg/hr

Water 1,204kg/hr

Turn down ratio: 50%

A240 TP316L(Body)

Material : A276 TP316L(spray nozzle)

A182 F316L(Flange)





Steam Introduced to the polymer plant PROJECT

Venturi nozzle type desuperheater

Location : Ulsan, Korea

Capacity Steam 43,783kg/hr Water 2,317kg/hr

Turn down ratio : 10%

A516 (Body)

Material : A276 TP304(Venturi nozzle)

A182 F304H(Flange)