## SAM HWA

# A/C COMPRESSOR COMPONENTS



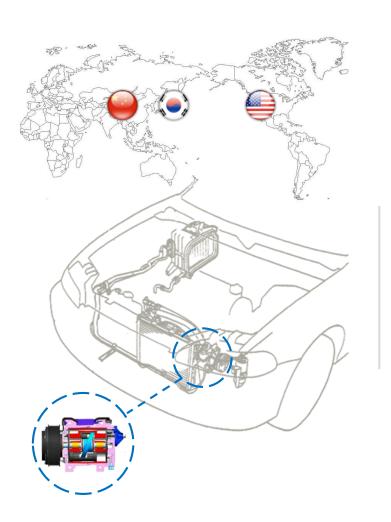
Address: #66-1, Gasan-ro, Hallim-myeon, Gimhae-si, Gyeongsangnam-do 50849, Republic of Korea

Tel: +82-55-335-3545 / E-mail: kccorea@gmail.com

### **SAMHWA**







#### **COMPANY INFO.**

- ☐ **COMPANY** SamHwa Co., Ltd.(Regi Nr : 277-81-00424)
- ☐ **FOUNDATION** 03. 12, 2003. (2012-2018 KC CORP)
- ☐ **BUSINESS** A/C COMPRESSOR & COMPONENTS
- ☐ **ADDRESS** Gasan-ro, Hallim-myeon, Gimhae-si,

Gyeongsangnam-do 50849, South Korea

- ☐ **CONTACT** +82-55-335-3545 / <u>kccorea@gmail.com</u>
- ☐ CUSTOMER



[North America-A/S market]]



**SYMC - TIER2** 



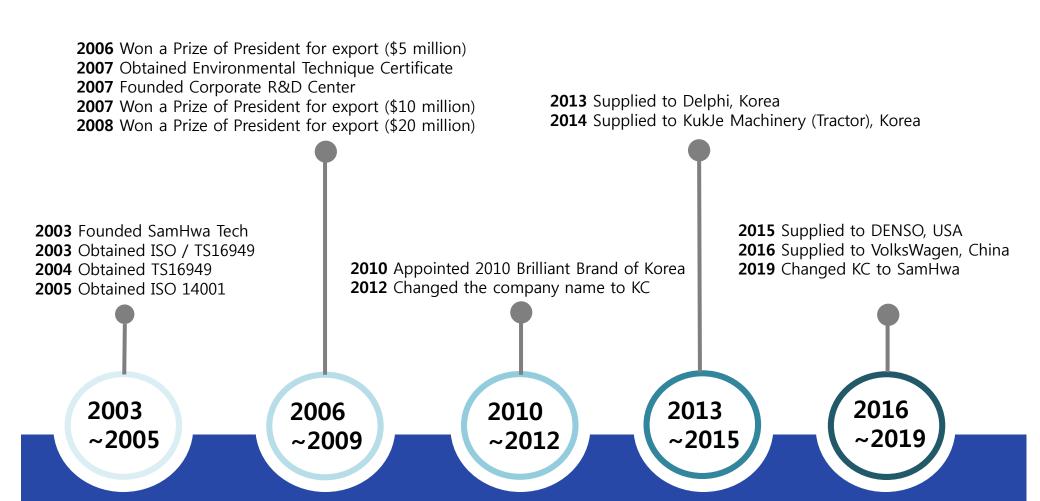
Volkswagen







### **COMPANY HISTORY**







### **RESEARCH & DEVELOPMENT**

Our researcher of Technology Institute can design the products by ourselves using 3D and 2D programs. Realization of Product Development with Overseas Corporation, Overseas Compressor Manufacturers and over 50 Partners.

For the Product Stability, cooperated with University/ Material Laboratory of Gyeongnam Technopark and conducted Structure Analysis and Fatigue/ Thermal Analysis.

Conducted self-assessment of product for customer satisfaction (Complex Durability, NVH, Bench Test etc.)

## **QUALITY PROGRAM**







This is to certify that:

#### SAMHWA Co., Ltd.

66-1, Gasan-ro, Hallim-myeon, Gimhae-si, Gyeongsangnam-do, 50849, Korea

Operates a

#### QUALITY MANAGEMENT SYSTEM

Which complies with the requirements of

#### IATF 16949:2016

For the following scope of registration:

The manufacture of air conditioning compressor parts. Exclusion - Product Design

Certificate No.: AUTO40999 IATF Database No.: 0354191

Issue Date: 9 May 2019 Expiry Date: 8 May 2022

George Azedo Automotive Technical Manager





**SamHwa** is doing our best to control our Quality Management System for Continuous Improvement, Prevention of Defects, Reduce of Wastes through the Acquisition of IATF 16949.

(1) ATF DATABASE: 0354191 (2) Issue Date: 05. 09, 2019. (3) Registered by: SAI GLOBAL

Quality Certification

**Certified IATF16949** (Quality First Policy)

Quality **Program** 

Customer **Satisfaction** 

**Conducting Clean-up 3 Steps (Efficiency** Improvement, Cost Reduction, Waste Removal, **Continuous Improvement)** 

Defective rate below 25 ppm / Goal is Zero Customer Complain.

























NO	FACILITIES LIST	QUANTITY	REMARK	
1	CNC LATHE	21		
2	MCT (MANUAL)	9	1) PARTS OF FS10 or R4 2) HOLLOW PISTON	
3	MCT (AUTOMATIC)	6	1	
4	WASHING MACHING	5	All PARTS	
5	CENTERLESS GRINDER	3	DICTON	
6	PISTON BRIDGE MACHINE	1	- PISTON	
7	BANDSAW	1	DARTS OF DA	
8	SPOT WELDING MACHINE	1		
9	BENCH DRILL MACHINE	3	PARTS OF R4	
10	SURFACE GRINDING MACHINE	3		
11	PISTON CAP MACHINE	3		
12	SAND BLAST MACHINE	2	LIQUIONA DICTONI	
13	COATING MACHINE	2	HOLLOW PISTON	
14	WELDING MACHINE	3		







## **COMPONENTS (R4 / ROTARY TYPE)**



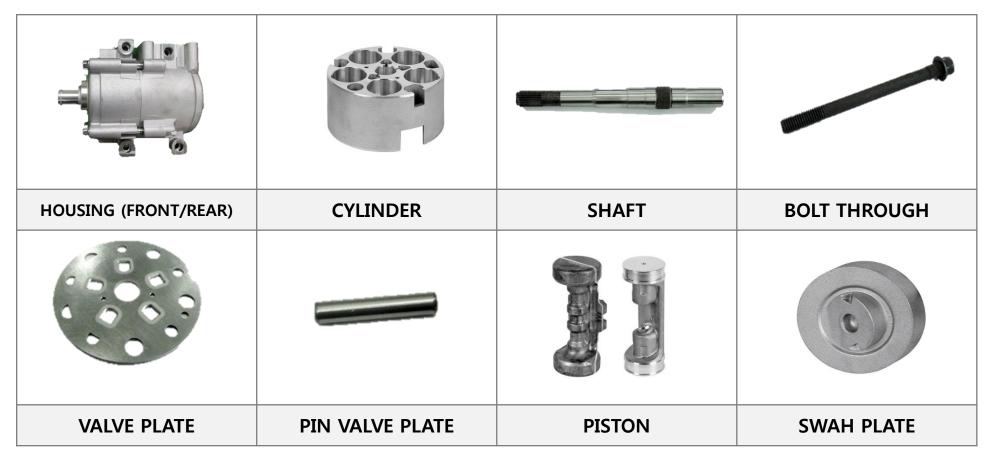
We experienced to supply our compresses to North America and to Europe for several years. We will do our best to supply the best goods to your company.







## **COMPONENTS (FS10 / FIXED TYPE)**



We experienced to supply our compresses to North America and to Europe for several years. We will do our best to supply the best goods to your company.







## **HOLLOW PISTON (VARIABLE TYPE)**



♣ Inertia Friction weld
♣ PTFE Coating

ITEM		HOLLOW PISTON (VARIABLE DISPLACEMENT)	
FUNCTION		A rotary motion of the swash plate.  → Straight line motion of the Piston.	
MANUFACTURER		KAYA CLIMATE CONTROL CORP (KC)	
MAJOR CUSTOMER		ERAE AUTOMOTIVE (SYMC) FOTON AUTOMOTVIE (VOLKSWAGEN)	
	MATERIAL	AP2 / 4000A / A4032	
FEATURE		FORGING	
PEATORE	WELDING	INERTIA FRICTION WELDING [IFW]	
	COATING	PTFE [TEFLON]	







## PROCESS FLOW (HOLLOW PISTON)



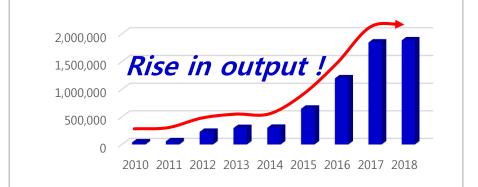
NO	PROCESS FLOW	
1	BRIDGE MACHINING	
2	CAP MACHINING	
3	FRICTION WELDING	
4	MACHINING WELDING	
5	SAND BLAST	
6	PTFE COATING	
7	GRINDING	
8	FINAL MACHINING	

## FINAL MACHINING SUPPLY RECORD









YEAR	FOTON [CHINA]	EREA [KOREA]	OTHERS	TOTAL
2010	37,230	-	-	37,230
2011	57,538	-	-	57,538
2012	108,200	-	119,772	227,972
2013	109,060	-	187,656	296,716
2014	101,060	-	200,656	301,716
2015	113,620	534,060	-	647,680
2016	386,640	810,540	-	1,197,180
2017	929,710	913,850	-	1,843,560
2018	1,015,406	866,744		1,882,150
TOTAL	2,858,464	3,125,194	508,084	6,491,742

## QUALITY ASSURANCE MEASURING EQUIPMENTS







"We will heartily reciprocate with the Best Quality for you."

Picture	Name	Model	Test Range
	3D Coordinate Measuring Machine	IMS IMPECT	750*800*550
	Projector	MITUTOYO PH3500	254*152*300
	Contour Measuring Machine	Mahr CD120	300*500
	Hardness Tester	SR-300	HRA, HRB, HRC, HRD, HRF
	Surface Roughness Tester	MITUTOYO SJ-400	50 mm

Equipped over 120 measuring gauges/instruments



We always do our best for customers.

## Thank you.

**¤** Management

**¤** Production

**¤** Administration

**¤** Quality

**¤** Purchasing

**¤ RnD** 

**¤** Sales



♠ If you have any inquiries, please send us an email to <u>kccorea@gmail.com</u>.

