

Presentation 45



Rubber Seal



Company Introduction – Factory

Location: China

Associates: 580

Date of establishment: 1983

◆ Main business: develop and produce automotive sealing product

Customers: SAIC GMW, FAW, Dongfeng Motor Co., Dongfeng Yueda Kia Motors Co., Ltd.,

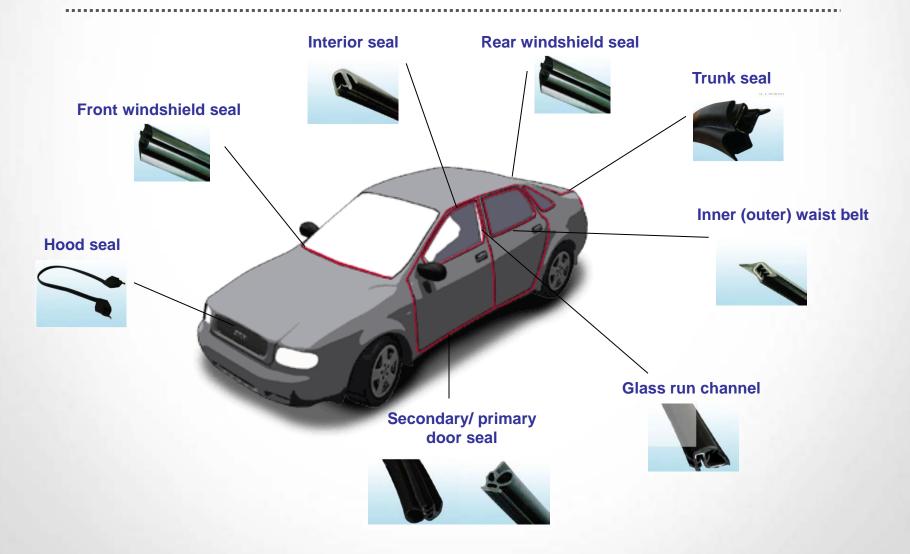
BAIC, Dongfeng Liuzhou Motor Co., Ltd., SAIC, etc.





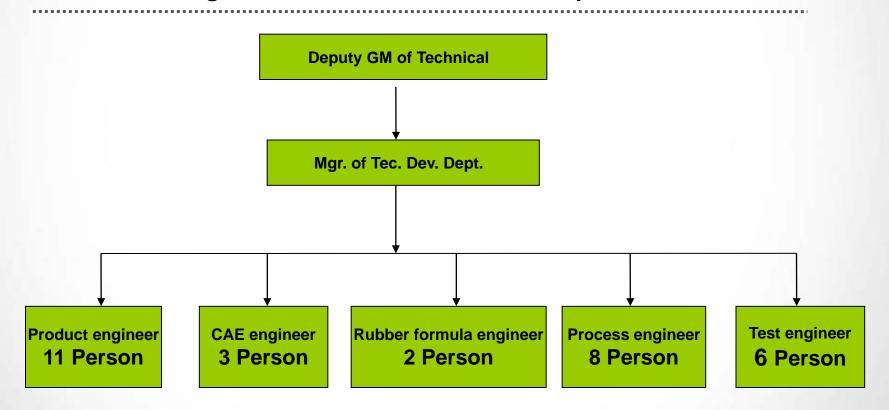


Company Introduction – Product Type





Technical – Organization Chart of Technical Dept.



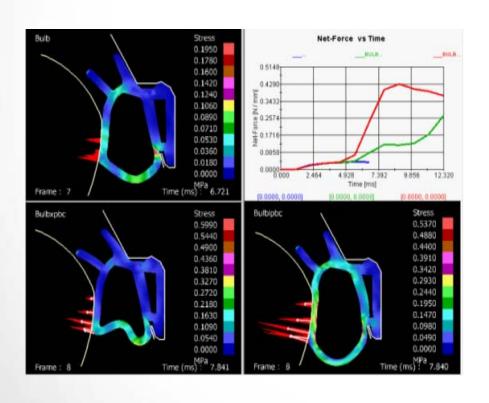


Technical – CAD/CATIA capability

No.	Items	Software	Dept.	Remark
1	Product structure	CATIA V5 R21	Technical Dept.	
2	Product map transformation	CATIA V5 R21	Technical Dept.	
3	Extrusion die design	CATIA V5 R21、 AutoCAD2010	Technical Dept.	
4	Auxiliary tooling design	CATIA V5 R21、 AutoCAD2010	Technical Dept.	



Technical – CAE capability



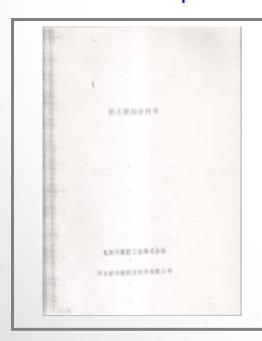
Analyze the CLD of profile's cross section by CAE software



Technical – Technical support

.....

A long-term technical cooperation agreement has been signed with the largest sealing product manufacturer in Japan - KINUGAWA RUBBER to establish the product development system, including the development of rubber formula, establishment of standard, product design, FEA analysis, type test of finished product as well as the simultaneous development of sealing system for the entire car, etc.

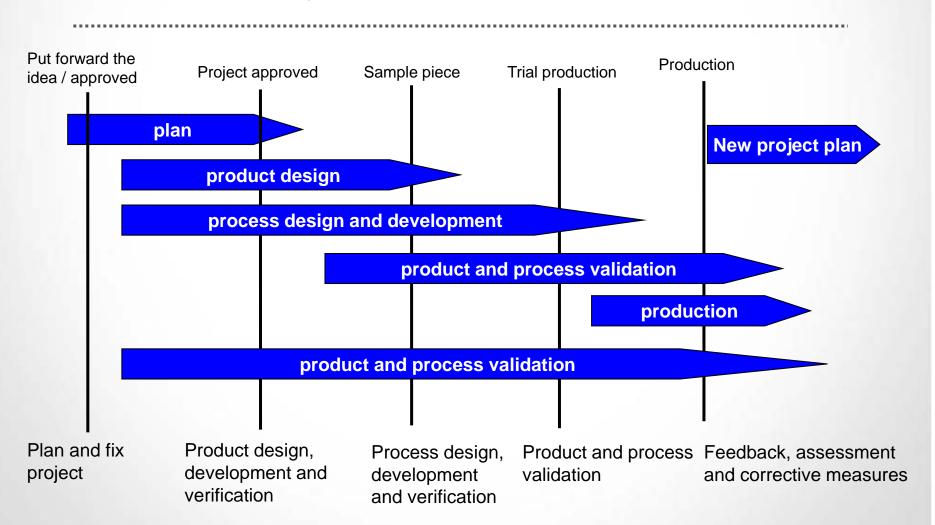




Technical agreement signed with KINUGAWA RUBBER

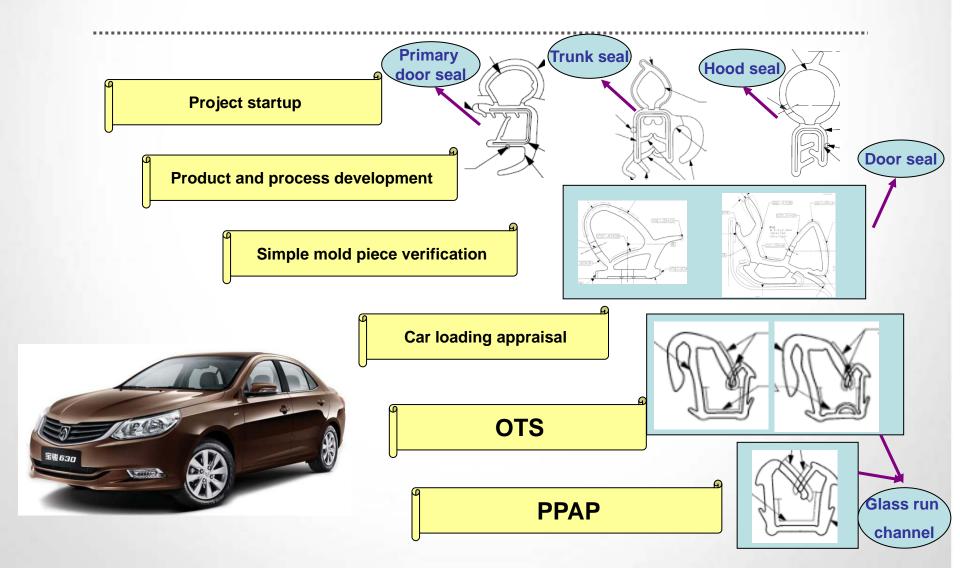


Technical – New project development





Technical – Development process (case)





Technical - Progress (Gantt chart)

PATAC													1000	7 P. San		Sec. 1												
The same at the party of			- 2						_		=								- 5					- 5			_	-
																							_				-	_
Salara Constitution of the last of the las	The Da				-		-	-	_				-				100								1000		-	-
The second secon				a barba		10.0		10			2.0	100									Les La	11.1			10.0			
Approximation of the second		_	-	_	-		_	-	_	_	Н	_	-	_	-	-	-			_	-		_	+	-	₩	-	Н
			-	_	-		_	-	_	_				-	-				_	_	_		_	_		-	\dashv	Н
									_	ш-		33		_			d a			- 3	_			_	-	_	_	
		_		_				-						_	-		TU:						_	-		_	=	П
											_																	
				_						_	100			-	-	_	_				_				_			_
				_							NAME OF TAXABLE PARTY.	4.4		Acres .		1	_					_	_		_			
			_	_												-	-						_	_	_		-	-
Charles and Charle		I	-	-	-	-	-		_		-				-	-	-		-	_	-		\leftarrow	-		-	-	Н
1100			_	-			-								_				22		173	HE	-	777		1	+	Н
Charles St.		-													_		_		-				_					$\boldsymbol{\sqcap}$
Manage																												
Character the special																										-		
Control of												10.00					_				_					-	1.0	•
Physical and Committee et and		-		_	-	_	_	-							—i-	_	-			_	-	-	_	-	_	-	44	Н
MANAGE AND ADDRESS OF THE ADDRESS OF		=+	_	-			_	-	-							_	-			_	_	_	-		—	_	—	_
		-	-	_	-		_	-		_			- 1	-	-		•			_			_	++	—	-	+	н
The Company of the Co		_												in the second						_			_		-		-	П
T-1 Special Sp																												
													-				-											ш
THE PERSON NAMED IN COLUMN 1			\rightarrow	_			_		_		_		-		-	- 10	-	a new		_	-		_	+	_	\rightarrow	44	н
Hiller con		_	-	_	-		_	-	_	_														-	-	-	—	Н
Charles Children Charles		_	_	_	_		_	-	_				_	_	_	_	•				_	_	_	-	一.	-	-	H
THE DATE OF THE PARTY OF THE PA	-	_	_				_	-					_		-					-	A		-				77	т
THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY N		_										-			-11/2			-				+		4	-	47	417	т
THE SHOWING																			100									
Harting and the fact		_						ш						_			-			-			_	_	_	_	_	ш
DE COMPANY			-	_	-		-	-	_	-	_		-	_	-	_	4	_	-		- Partie	_	_	+ +	_	-	\dashv	н
THE PARTY AND			_	-	-	-	_								-	-			_	_	-	_	_		-	-	-	Н
	Annual Inc.	_																							_	ш	\blacksquare	
Description of the Control of the Co																												
	-																											
Distriction of Control of Control															_	-			-	-			_		Ŧ	П	\blacksquare	П
CONTRACTOR CONTRACTOR			-	-	-		-	-	_	-	-			_	-	-	1	-		_	-		—	-	-	₩	44	Н
Tilde			_	-	-	-	-			-	-		\rightarrow	_	-	-	-		\vdash	_	-	+	-	-	—	₩	+	Н
HALL Prices			_					-		_					_	_							_	_	_	_	+	М
The second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a section section in the second section in the section is a section section in the section section in the section section is a section section in the section section in the section section is a section sectio	AND DESCRIPTION OF	_														-												
The first of the particular and the second s																												
THE RESERVE OF THE RESERVE OF THE PERSON NAMED IN COLUMN TWO PERSON NAMED I	-		-	_												-				_				\blacksquare	_	П		П
Military and the state of the s			\rightarrow		44	_	_	ш					_	_	-	-	-		_	_	-	4	—	44	-	ш	44	ш
The state of the s			-	-	++		-	-		-	\vdash		-		-	-	-			_	-		-	-	-	₩	+-	Н
The State of the Land State of	of the same		-	-	-		-		_		-		-		-	-	-		-	_	-		+	-	-	-	+	Н
Total Control of Control		-	_												_								_		十	11	\blacksquare	т



Technical – patents

We got over 10 patents from 2013 to 2015, take six as examples:

No.	Patent names	Patent No.	Patent acceptance notices
1	Improved structure of profile for door seal	201520401054.9	WE WANTED TO BE A TO THE TO TH
2	Improved structure of mold for producing car sealing product	201520399121.8	THE A R. A. R. B.
3	Improved spray coating device for car sealing product	201520399571.7	THE REPORT OF THE PARTY OF THE



Technical – patents

......

No.	Patent names	Patent No.	Patent acceptance notices
4	Improved profile cutting device	201520397935.8	MANAGEMENT TO SERVICE AND
5	Improved profile coiling machine	201520399565.1	WE A READ TO BE FOR THE BOOK TO THE BOOK T
6	Universal self-clinching glass seal	201520401053.4	MESSIANUS EN PROPERTURA DE LA CONTRACTION DEL CONTRACTION DE LA CO



Quality – Quality management system

We passed the ISO/TS 16949:2002 certificate of quality system and passed the annual recheck of quality system ISO/TS 16949:2009 in March 2015







Quality – EHS management system

in December 2015 passed the ISO14001:2004 management system







Quality –EHS management system

in December 2015 passed the OHSAS18001:2007 management system







Quality – to realize Formel Q7 and QSB on site





Fast-response meeting 9:00 every morning: to analyze and solve the quality and product issues occurred internally and externally the day before, then keep record on board. Review the implementation progress each day and assign current works.



Quality – to realize Formel Q7 and QSB



Layered process audit board of working procedure



Quality -	Quality	Policy
-----------	---------	---------------

To provide all-round satisfactory product and service to our customers

We devote to provide top quality product and service to satisfy our customers through strengthening internal management, saving energy and cost, optimizing production process, continuous technical and management innovation to guarantee zero defect of product throughout design development and batch production of product

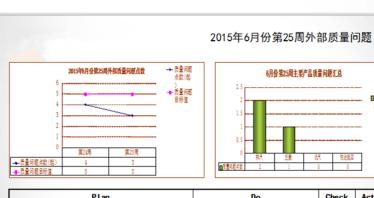


Quality – PDCA

Quality meeting will be held at certain time each week to review all internal and external quality issues occurred during the week and make countermeasures by PDCA.



		Plan			Do	Check	Action	
客户	问题 描述	根本原因	改善措施	责任 人	改进目标	完成日期	效果确 认	目前状态
B40	后顶盖产 品接角砸 条子	模具问题	修理模具	许立波	使产品接角后符 合外观要求	2015、6、6	完成	良好



		Plan			Do		Check	Action
客户	问题 描述	根本原因	改善措施	责任 人	改进目标	完成日期	效果确 认	目前状态
柳汽	C20滑槽 划伤、接 角部位发 白	①接角硫化时间 不到。②接角胶 料用的是冬季配 方,需更换夏季 配方。	①严控接角的温度 和硫化时间使其符 合工艺要求②更换 夏季配方。	①王奎 志②向 东磊	严格遵从工艺生 产,杜绝不良品 出厂。	6月8日	6月10日 下午生产	霜放置2天 再确认状 态



Quality – Test center

We have independent inspection and test center which has passed the ISO/IEC 17025:2005 CNAS.















No.	Equipment	Q'ty.	Suppliers	Spec.	Tests	Pictures
1	Thickness tester	2	Shanghai	0-10mm	Test the thickness of test piece	
2	Shao Er A hardness tester	2	Gaotie	LX-A	Test the Shao Er A hardness of rubber plastic test piece	
3	Shore D hardness tester	1	Shanghai	XHS-D	Test the Shore D hardness of rubber plastic test piece	



No.	Equipment	Quan.	Suppliers	Spec.	Tests	Pictures
4	Electronic scales	1	Japan	UW220	Apparent density of rubber plastic	
5	Electronic microscopy thickness meter	1	Shanghai	MFM-600	Wear-resistance property of rubber plastic flocking and coating	
6	Electronic universal testing machine	1	Yangzhou Jiangsu	JPL-500N	Mechanical property and aging property of rubber plastic materials	



Qua No. Equipment **Suppliers** Spec. **Tests Pictures** n. 7 1 LAX Test the CLD, Universal Italy insertion & extraction tensile testing force, joint split force machine Abrasion Yangzhou TH7088 Test the abrasion 8 1 resistance Jiangsu resistance property of rubber plastic tester flocking and coating 9 Hot air 1 **Nantong** 401-A Aging property of aging test Jiangsu chamber rubber plastic materials



No.	Equipment	Qua n.	Suppliers	Spec.	Tests	Pictures
10	Brittleness temperature meter	1	Yangzhou Jiangsu	MZ-068	Test the brittleness temperature of rubber plastic materials	
11	Xenon lamp aging chamber	1	Chongqing	XD080B	Test the weather resistance and stain resistance of rubber plastic materials and product	
12	Programma ble high-low temperature test chamber	1	Chongqing	SDH702P	Test the low- temperature resistance of rubber plastic materials and product	



No.	Equipment	Qua n.	Suppliers	Spec.	Tests	Pictures
13	Ozone aging chamber	1	Italy	0-100℃	Test the Ozone resistance of rubber plastic materials and product	
14	Sulfur variometer	1	Gaotie	R500	Test the sulfur changing performance of compound	S
15	Mooney tester	1	Gaotie	V600	Test the mooney of compound	
16	Flame- resistance tester	1	Beijing	MST8925	Test the flammability of rubber plastic materials	



Quality – Quick test room on site

Quick test room functions on the floor, test sulfur changing and mooney of compound by sulfur variometer and mooney tester, test insertion and extraction force of profile by tensile test and test the conformity of cross sections by 10x projector.

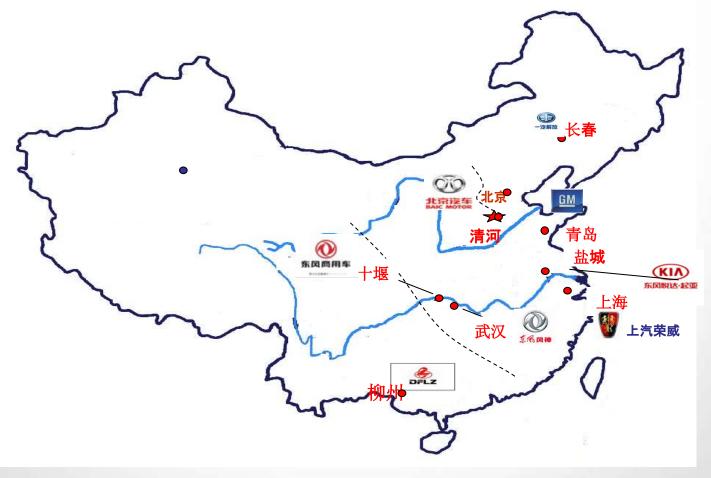






Market – Market distribution

We now mainly supply for SAIC GMW, FAW, Dongfeng Motor Co., Ltd. Dongfeng Yueda Kia Motors Co., Ltd., BAIC, Dongfeng Liuzhou Motor Co., Ltd. and SAIC, etc. Covers SUVs, passenger cars and heavy trucks, etc.







No.	Customers	Car types	Product	Pictures	Share %
1	SAIC GMW	N300	Whole car sealing product (secondary/primary door seal, trunk seal, waist belt, GRC, hood seal, side window)	A DEPT OF THE PROPERTY OF THE	70%
2	SAIC GMW	N310	Whole car sealing product (secondary/primary door seal, trunk seal, waist belt, GRC, hood seal, side window)		100%
3	BAIC	BJ40	Whole car sealing product (secondary/primary door seal, rear door seals, waist belt, GRC, hood seal, side window)		100%



No.	Customers	Car types	Product	Pictures	Share %
4	Dongfeng Liuzhou Motor Co., Ltd.	B12	Whole car sealing product (secondary/primary door seal, trunk seal, waist belt, GRC, hood seal, side window)	Riff occupier of yar	80%
5	Dongfeng Liuzhou Motor Co., Ltd.	CM7	Whole car sealing product (secondary/primary door seal, trunk seal, waist belt, GRC, hood seal, side window)	No.	100%
6	Lingzhi	Lingzhi	Whole car sealing product (secondary/primary door seal, trunk seal, waist belt, GRC, hood seal, side window)	同行性	50%





Product No. **Pictures Share % Customers** Car types Whole car sealing product Dongfeng (secondary/primary door seal, trunk Liuzhou Motor Heavy trucks 100% 7 seal, waist belt, GRC, hood seal, side Co., Ltd. window) Whole car sealing product Dongfeng LV S50 (secondary/primary door seal, trunk Liuzhou Motor 8 100% seal, waist belt, GRC, hood seal, side Co., Ltd. window) **Dongfeng Yueda** TDC(福瑞迪) Hood seal 100% 9 Kia Motor Co., Forte Ltd.



No. **Product Pictures Share % Customers** Car types Dongfeng Yueda 10 Kia Motor Co., AMC Soul Hood seal 100% Ltd. Dongfeng Yueda Kia Motor Co., 11 **SLC Sportage** Trunk seal/hood seal 100% Ltd. Dongfeng Yueda TFC (K5) Trunk seal/hood seal 12 Kia Motor Co., 100% K5 Ltd.



No.	Customers	Car types	Product Pictures		Share %
13	Dongfeng Yueda Kia Motor Co., Ltd.	QBC(K2) K2	Trunk seal/hood seal		100%
14	Dongfeng Yueda Kia Motor Co., Ltd.	YR (K3) K3	Trunk seal/hood seal		100%
15	Dongfeng Yueda Kia Motor Co., Ltd.	PFC(K4) K4	Trunk seal/hood seal		100%



No.	Customers	Car types	Product	Pictures	Share %
16	Dongfeng Yueda Kia Motor Co., Ltd.	KC KX3	Trunk seal/hood seal		100%
17	Dongfeng heavy trucks	D310	Whole car sealing product	aldfgw. Sm	10%
18	Dongfeng passenger car	EJO2	Whole car sealing product		100%



Production – Equipment

Major equipment Q'ty. **Productivity Current load ratio** Remark No. Type/spec. Origin 3.46 million Germa 1 Four-extruder extrusion line SG-50-75-90 1 45% m/year ny 7.60 million Guang 2 Four-extruder extrusion line SG-45-75-90 55% dong m/year Tri-extruder extrusion line 25 million Guang 3 XJP-75-90 60% (one flocking line) dong m/year 广东 **Single-extruder extrusion** 14 million **GS90** 65% 4 2 Guang line m/year dong



Production – Equipment

......

No.	Major equipment	Type/spec.	Origin	Q'ty.	Productivity	Current load ratio	Remark
5	Rubber injection molding press	HYZ-30J	Hengyang Huayi	33	2.6 million pieces/year	65%	
6	Jaw rubber injection molding press	H-XZB/ES350	Ningbo Qianpu	42	8.4 million pieces/year	65%	



Production – Equipment

No.	Major equipment	Type/spec.	Origin	Q'ty.	Productivity	Current load ratio	备注 Remark
7	Pressure type mixer	XK-450	Shanghai	3	12,000 tons /year	50%	
8	Open type mixer	X(N)N-55*30	Shanghai	3	12,000 tons /year	50%	
9	Rubber sheet cooling machine	XPL-600	Shanghai	2	12,000 tons /year	50%	



Workshop overview



















Contact us

Sun Smile Corporation

7FI-7, Lane 126, Section 1, Fu-Hsing South Road, Taipei, Taiwan, R.O.C.

http://www.sssmile.com.tw

Tel: 886-2-27215260 Fax: 886-2-27215275

e-mail: info@sssmile.com.tw

Thanks!