



INTRODUCTION TO OUR COMPANY

FEBRUARY 2014

WWW.SAILUNTYRE.COM

GLOBAL FOOTPRINT



6 Continents
6 Corporate Offices
50+ Countries Worldwide
5 Primary Brands

 **SAILUN**

JINYU TIRES

ROVELO

ROADX

BLACKLION



BRIEF INTRODUCTION

- Established in 2002
- Close R&D relation with Rubber Tech Institution
- China Tire Industrial Demonstrating Base, 2009
- Sailun brand was awarded “Well-known Trademark of China”, 2010
- “TOP 10” Tire brand rewarded by national GV
- Nominated for “National Tire Process and Control Engineering Technology Research Center”, 2010
- Listed in Shanghai Stock Market in 2011, stock code is 601058
- Acquired SHENYANG 100% stake in 2010
- Merged JINYU INDUSTRIAL 49% stake in 2012
- Sailun’s VIETNAM factory was officially opened on the 29.11.2013



ITEM	SAILUN CO.LTD.	SHENYANG PEACE RADIAL TYRE MANUFACTURING CO., LTD	SHANDONG JINYU INDUSTRIAL CO., LTD	VIETNAM FACTORY
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• 440,000 sqm

• 660,000 sqm

• 560,000 sqm

• 660,000 sqm



• 9.6 million

• /

• 12 million

• 6 million



• 2.4 million

• 1.6 million

• 3 million

• /



• /

• /

• /

• 20K ton

Total global production :



27.6 mil

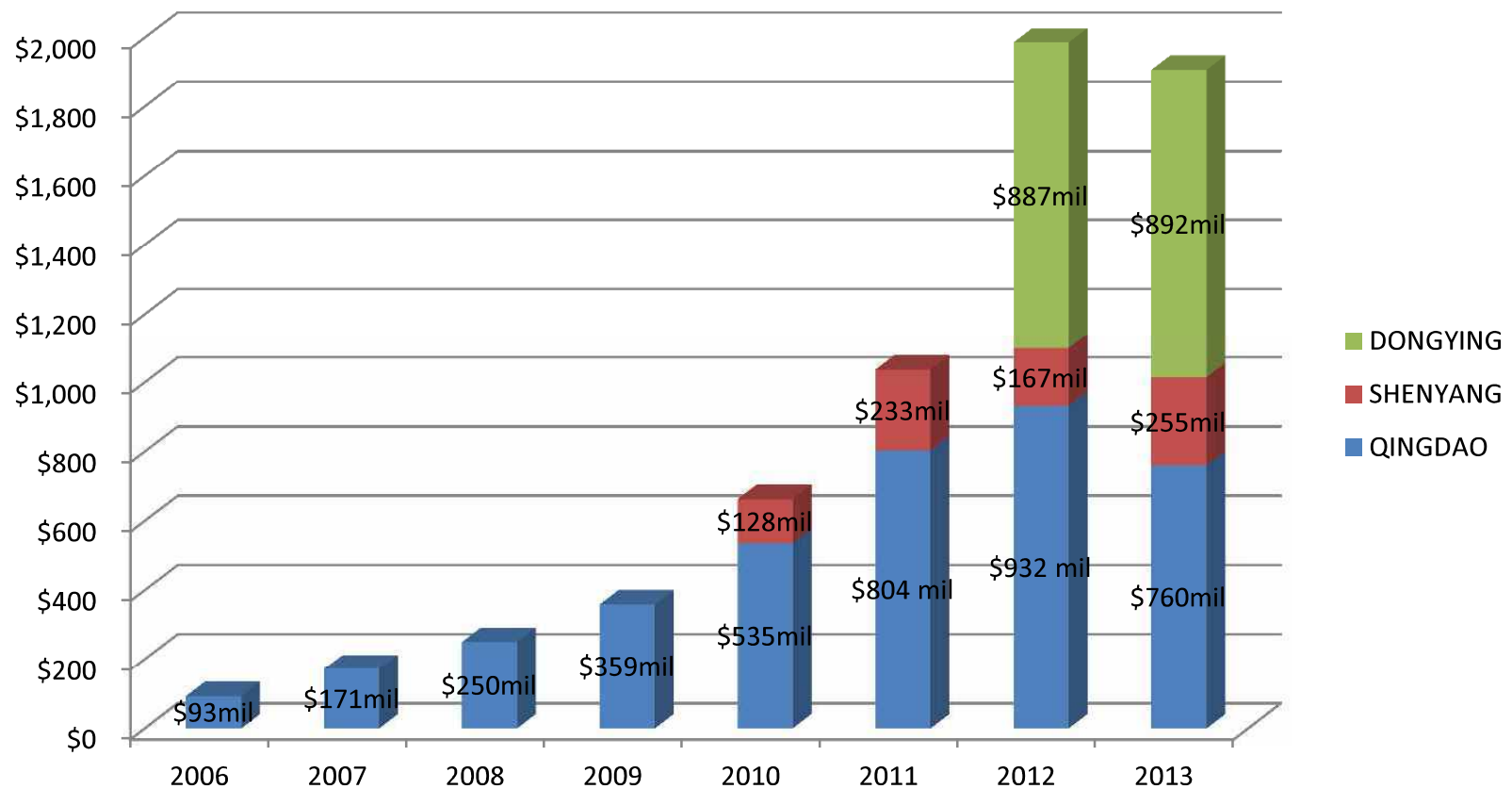


7 mil

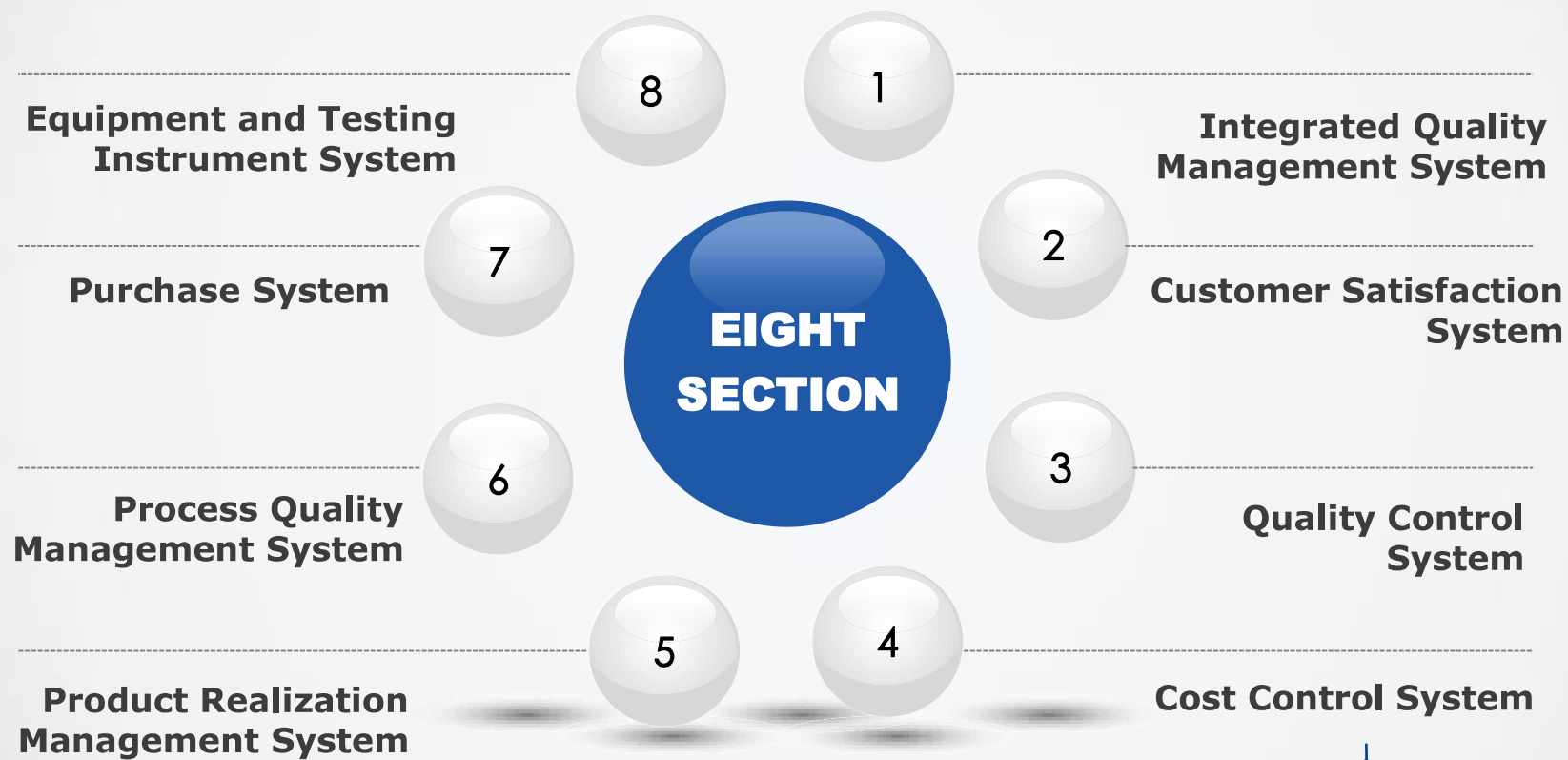


20K ton

SALES TURNOVER



QUALITY SYSTEM



SAILUN JINYU GROUP R&D CENTER

INTRODUCTION



Floor Area - More than 46669m²

Office Condition - Modern office

Accommodation - Specialist Apartment with 2 bedrooms, 1 bathroom, 1 kitchen, furnished with all electric apparatus

➤ **Mission of R&D Center**

- Providing technology and quality support for SAILUN JINYU GROUP to become an influential enterprise in global tire industry.

➤ **Vision of R&D Center**

- To be outstanding in technology and quality in tire industry throughout the nation.



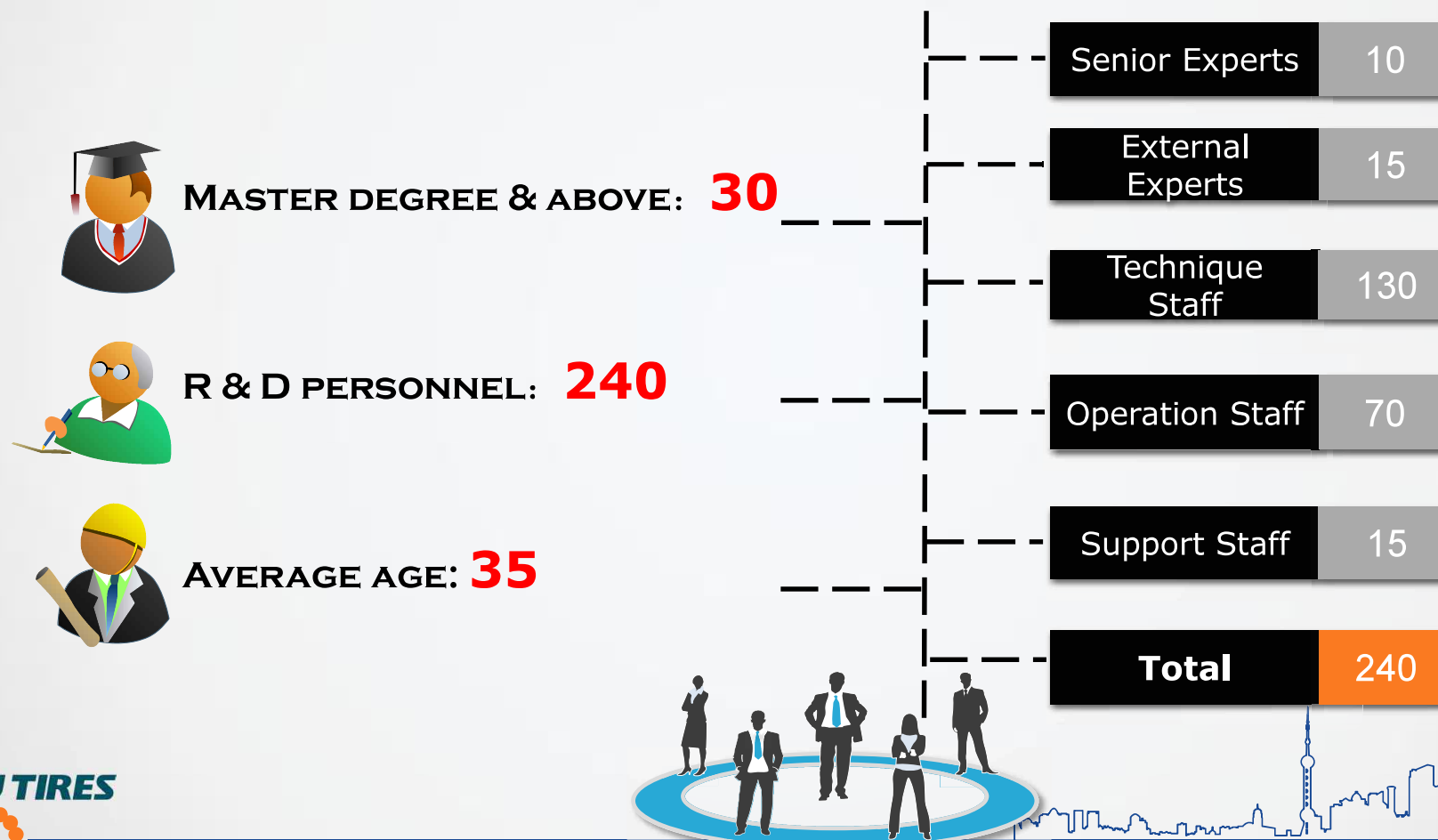
DEVELOPMENT PROCESS



PRODUCTION LAYOUT



ORGANIZATION CHART



PROPERTIES R & D

■ (FEA) Finite Element Analysis and Print Foot Analysis

- a: Contact shape and strength analysis
- b: Simulation of Contact shape change during abrasion
- c: Under different load, the distribution of contact shape and pressure



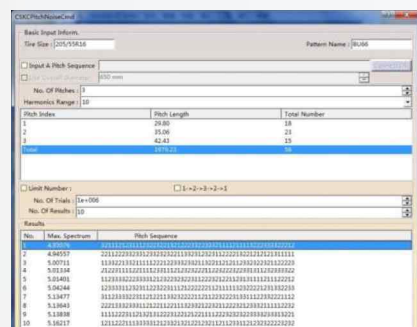
PROPERTIES R & D

■ Noise Optimization

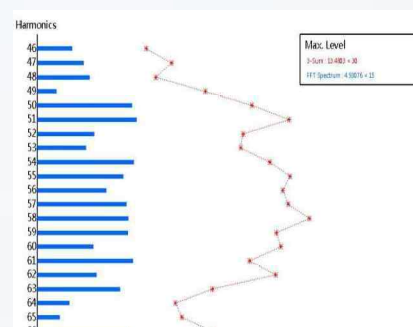


➤ Noise Optimization and database of pitch distance

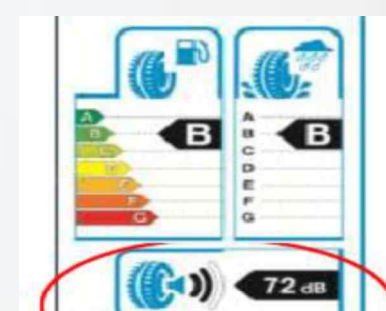
Size : 205/55R16	Pattern : BU66
Total No. Of Pitches : 56	Total Pitch Length(mm) : 1979.23
Pitch Ratio Of Max./Min. : 1.42383	
Pitch Number : [P1]18EA, [P2]23EA, [P3]15EA	
Pitch Length : [P1]29.8mm, [P2]35.06mm, [P3]42.43mm	
Pitch Sequence : 321112128111232232132122233223332111121111322233322212	



Data Process



Noise Simulation

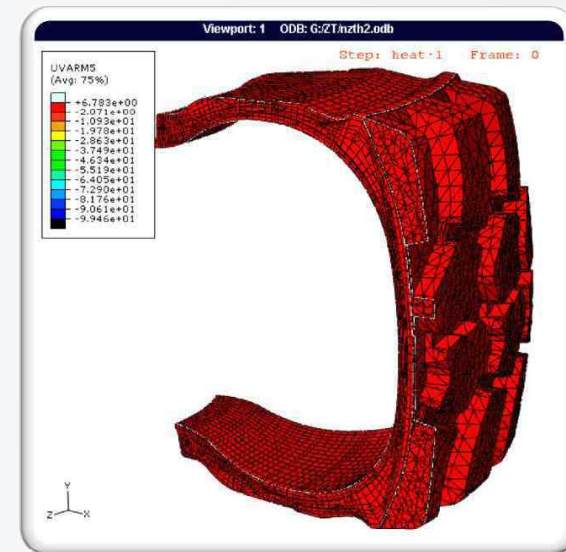


European Labeling Regulation

PROPERTIES R & D

■ Vulcanization Simulation Analysis

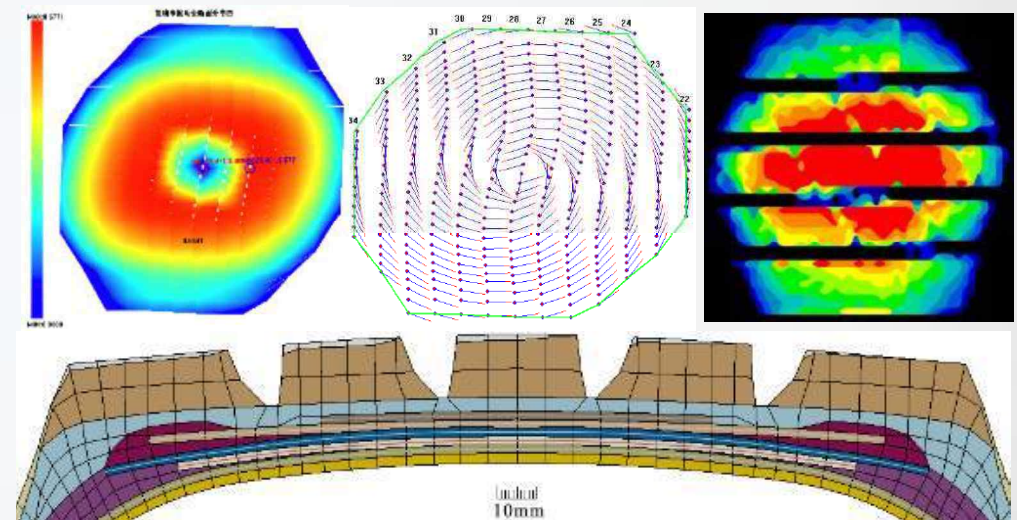
- Heat-conducting of every parts
- Setting inside and outside boundary conditions
- Optimizing vulcanizing time, temperature and properties



PROPERTIES R & D

■ Abrasion

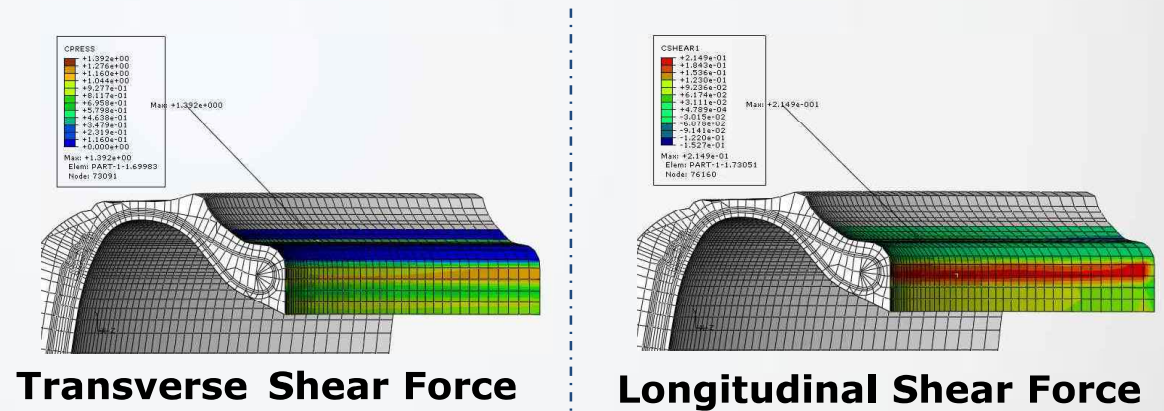
- Drifting, frictional Work
- Establishing model for abrasion mechanism
- Estimating mileage and improving abrasion



PROPERTIES R & D

■ Matching Analysis of Tire and Rim

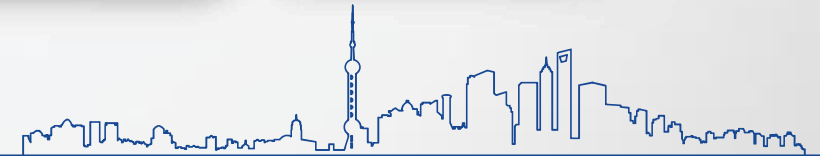
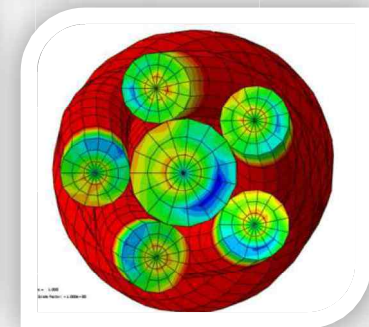
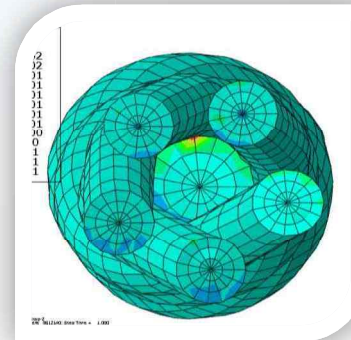
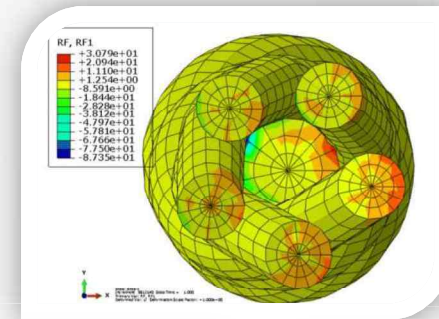
- Change of contact pressure
- Trend of shear force
- Optimal distribution and curve for material stiffness



PROPERTIES R & D

■ Analysis and Optimization of Framework Material

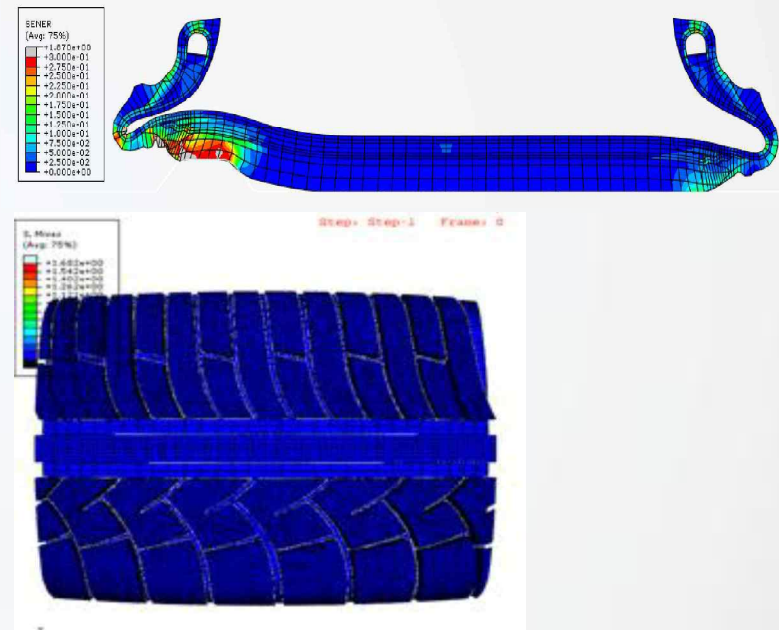
- Mold establishment of material stiffness
- Stretching force analysis
- Option and optimization of framework material



PROPERTIES R & D

■ Wrapping Property

- Radial deformation
- Optimization of wrapping property



MATERIAL R & D

■ Application of Cutting-edge Material



SSBR



NdBR



**High Dispersion
White Carbon
Black**



**Low Hysteresis
Carbon Black**



**Functional
Resin**



**TAWI Steel
Cord**



MATERIAL TEST

Physical & Chemical Testing Lab

■ Physical Testing Lab

- Now equipped with
American Alpha MV2000
Mooney viscosity Tester,
Instron 3365 tensile tester,
etc.



MATERIAL TEST

Physical & Chemical Testing Lab

■ Chemical Testing Lab

- Chemical Testing Lab is now equipped with BET, DBP and Digital Melting Point Apparatus, etc.

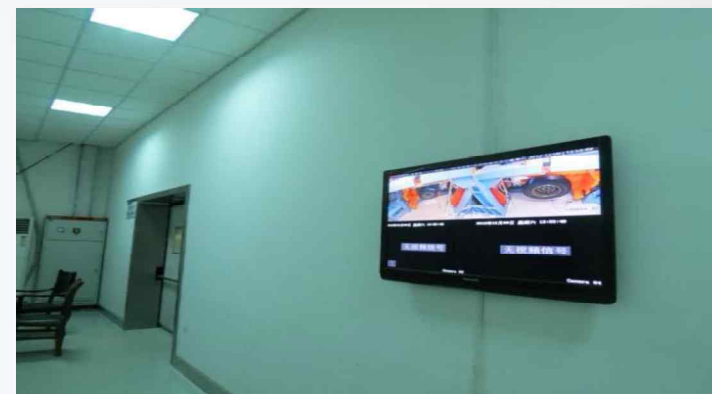


PERFORMANCE RESEARCH

RR R&D

■ RR R&D Equipment

- Made by TS German, mainly for rolling resistance test
- To test rolling resistance rate of PCR, LTR and TBR



■ Technical Advantages

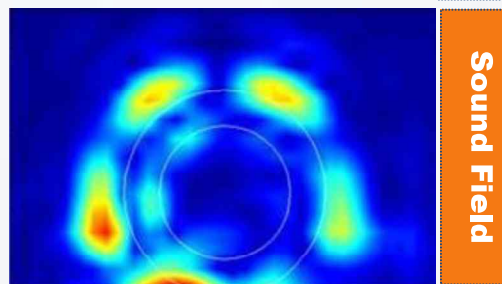
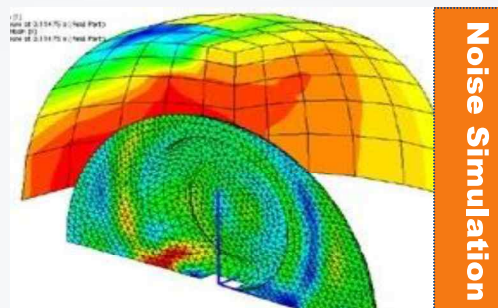
- Pressure precision: $\pm 3\text{kPa}$
- Temperature precision: $\pm 0.5^\circ\text{C}$
- Standard rim



PERFORMANCE RESEARCH



NVH



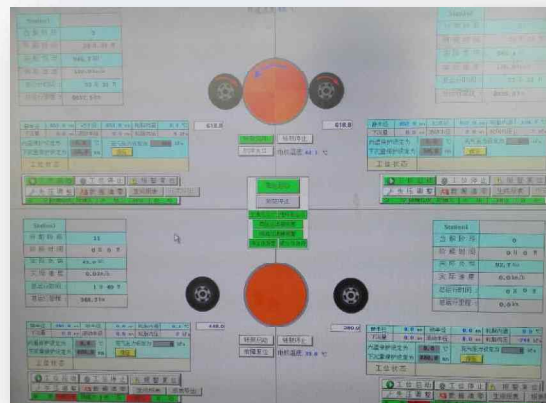
Noise Lab

- NVH lab is the **first** lab founded in China for handling Europe Labeling Regulation
- Indoor experiment uses noise-reduction lab and low-noise drum



TIRE TEST

■ High-Speed Durability



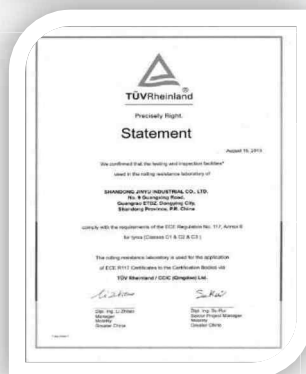
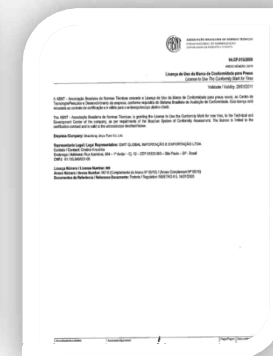
- ✓ Testing high-speed durability
- ✓ Satisfying national standard, European standard, ISO standard, US standard, company standard, etc.



CERTIFICATION

■ Lab Certification

- CNAS
- TUV
- IDIADA
- CCC, ISO9000, DOTECE, NMETRO, SONCAP, etc.



TESTING FIELD

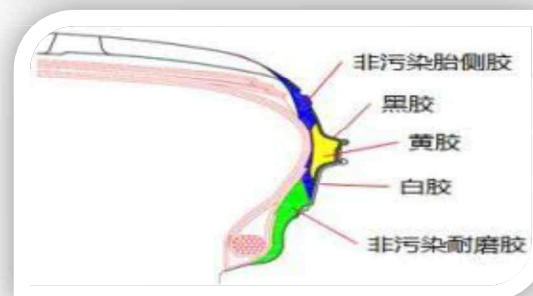
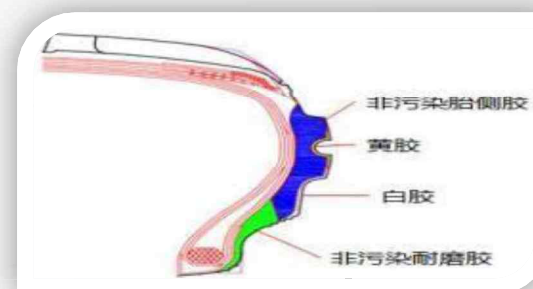
■ Saiya Testing Field

- Saiya testing field Will be located in Bin Hai New District, Guang Rao ,Dong Ying, covering an area of 1.67 million square meters, with total investment of about 1.1 billion RMB, planning to start from the end of 2014 to June, 2017.
- Saiya testing field will become the **nation's largest** tire testing ground, containing 13 kinds of test road, more than 40 species special road.



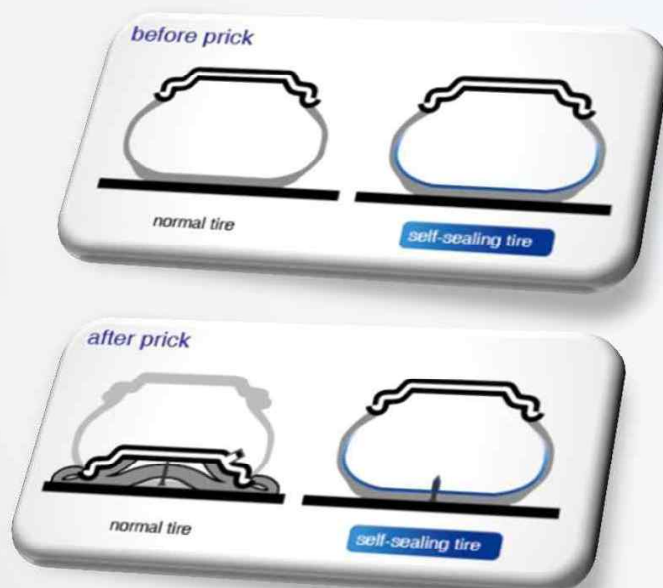
PRODUCT R & D

■ Cutting-Edge Product—Golden Edge Tire



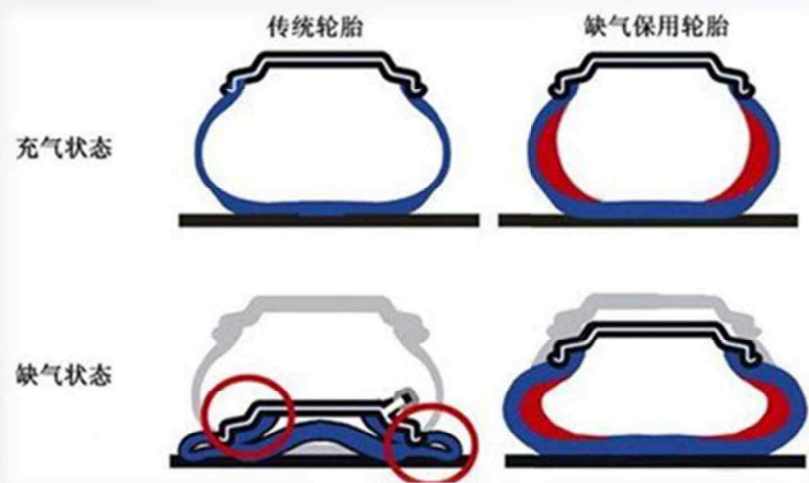
PRODUCT R & D

■ Cutting-Edge Product—Self-Sealing Tire



PRODUCT R & D

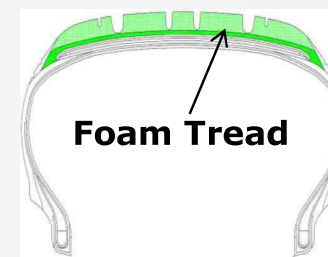
■ Cutting-Edge Product——RUNFLAT



PRODUCT R & D

■ Cutting-Edge Product

➤ Foam Snow Tire



PRODUCT R & D

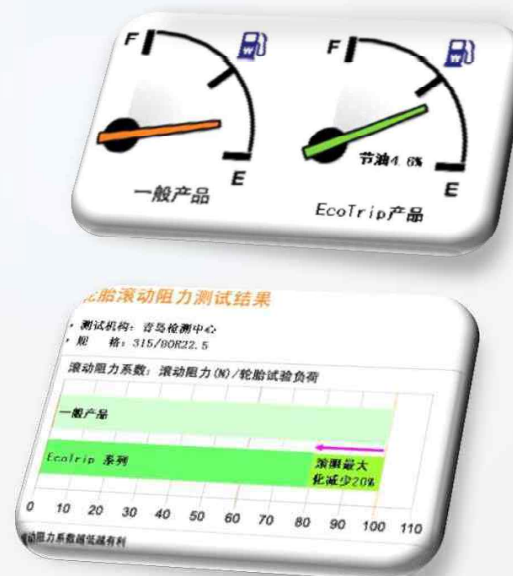
ECOTRIP

Breakthrough
of European
and American
Technical
Barrier

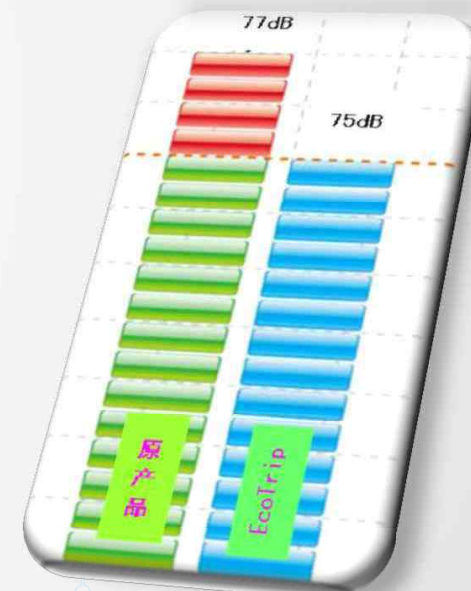
Low Carbon Emission



Oil-saving



Low Noise

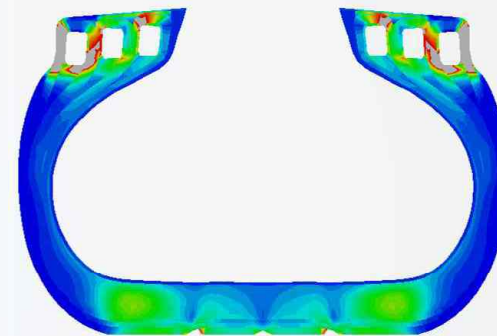


PRODUCT R & D

■ Cutting-Edge Product—Aircraft Tire



- Tires for War craft, middle and small air freighter
- Air bus 310

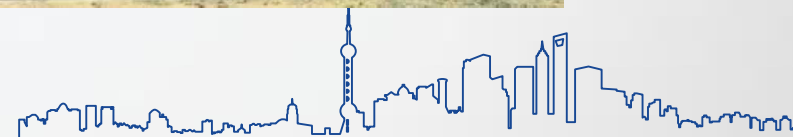


- ✓ When taking off, the status of aircraft bias tire, at the speed of 300km/h, load of 15000kg, and pressure of 2.0Mpa



PRODUCT R & D

■ Cutting-Edge Product— Bulletproof



PRODUCT R & D

■ **Cutting-Edge Product—
Military SUV**



PRODUCT R & D

■ Cutting-Edge Product-- SNOW TIRE



SW01



HW01



SW02

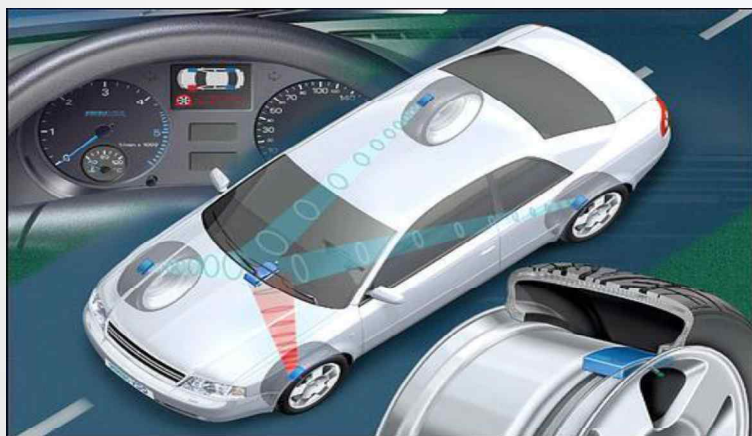


SW03



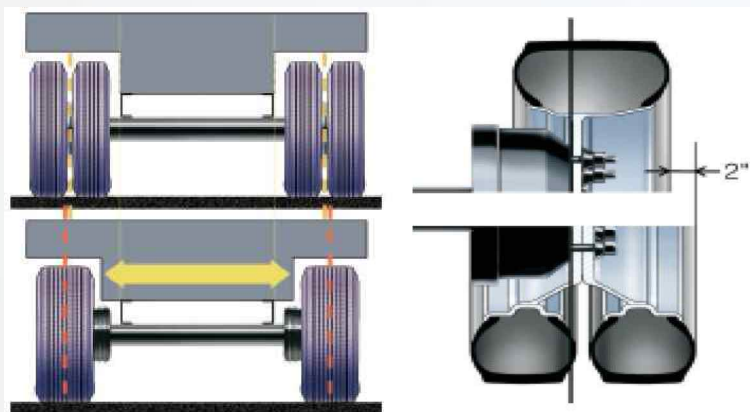
PRODUCT R & D

■ Cutting-Edge Product—RFID&TPMS Smart Tire



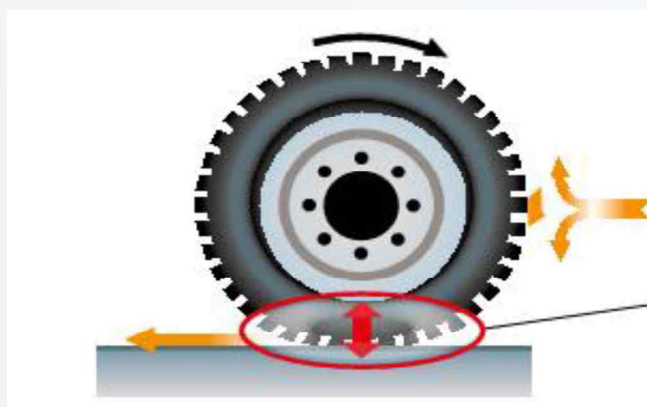
PRODUCT R & D

■ Cutting-Edge Product---SUPPER SINGLE



PRODUCT R & D

■ Cutting-Edge Product---SMARTWAY



The new generation Atrezzo ZSR is engineered to deliver precise wet and dry handling characteristics. An asymmetrical design and enhanced rubber compound rises to the challenge and provides exceptional performance on the street or on the highway.

- Asymmetrical tread design for uncompromising performance.
- Wide shoulder tread block with high angle sipes for high-speed cornering performance.
- Variable pitch tread design provides a smooth, quiet ride.
- Advance tread compound delivers superior cornering and exceptional handling.
- Deep, circumferential grooves and hundreds of biting edges deliver excellent wet and dry traction.

PERFORMANCE RATINGS:

Wet Performance: 9

Dry Performance: 10

Ride Comfort: 8

Quietness: 8

Tread Life: 7



Exceptional handling:
Wide shoulder tread block with high angle sipes for high-speed cornering performance.



Solid center rib:
The tread design features a solid center rib for superior stability and road feel.



Superior traction:
Extra-wide grooves improve wet performance and reduce hydroplaning.

	Size	L.I. / S.R.	O.D. mm	S.W. mm	T.D. mm	R.W. inch	S.L.R. inch	UTQG	RR	WG	NOISE
15	195/45R15	78V	557	195	8,0	6,5	10,2	340 A A	F	C	70B
	195/40ZR16	80W XL	562	200	8,2	7,0	10,4	340 A A	F	C	71B
	195/45R16	84V XL	582	195	8,0	6,5	10,7	340 A A	F	C	71B
	205/45R16	87V XL	590	206	8,2	7,0	10,8	340 A A	F	C	71B
	205/45R16	87W XL	590	206	8,2	7,0	10,8	340 A A	F	C	71B
16	205/50ZR16	87W	612	214	8,2	6,5	11,2	340 A A	F	C	70B
	205/55ZR16	91W	632	214	8,3	6,5	11,5	340 A A	E	C	70B
	215/55ZR16	97W XL	642	226	8,2	7,0	11,6	340 A A	E	C	71B
	225/55ZR16	99W XL	654	233	8,2	7,0	11,8	340 A A	E	B	71B
	215/35ZR17	83W XL	582	218	8,2	7,5	10,8	340 A A	F	C	71B
	195/40R17	81V XL	588	200	8,2	7,0	10,9	340 A A	F	C	71B
	205/40ZR17	84W XL	596	212	8,2	7,5	11,0	340 A A	F	C	71B
	215/40ZR17	87W XL	604	218	8,0	7,5	11,1	340 A A	F	C	71B
	245/40ZR17	95W XL	628	248	8,2	8,5	11,5	340 A A	E	B	71B
	205/45ZR17	88W XL	616	206	8,2	7,0	11,3	340 A A	F	C	71B
17	215/45ZR17	91W XL	626	213	8,0	7,0	11,5	340 A A	E	C	71B
	225/45ZR17	94W XL	634	225	8,2	7,5	11,6	340 A A	E	B	71B
	235/45ZR17	97W XL	644	236	8,2	8,0	11,8	340 A A	E	B	71B
	245/45ZR17	99Y XL	652	243	8,2	8,0	11,9	340 A A	E	B	71B
	205/50ZR17	93W XL	638	214	8,2	6,5	11,7	340 A A	E	C	71B
	215/50ZR17	95W XL	648	226	8,2	7,0	11,8	340 A A	E	C	71B
	215/50R17	95V XL	648	226	8,2	7,0	11,8	340 A A	E	C	71B
	225/50ZR17	98W XL	658	233	8,2	7,0	12,0	340 A A	E	B	71B
	215/55ZR17	98W XL	668	226	8,2	7,0	12,1	340 A A	E	C	71B
	225/55ZR17	101W XL	680	233	8,2	7,0	12,3	340 A A	E	B	71B
	225/55R17	101V XL	680	233	8,2	7,0	12,3	340 A A	E	B	71B

ULTRA HIGH PERFORMANCE TIRE

	Size	L.I. / S.R.	O.D. mm	S.W. mm	T.D. mm	R.W. inch	S.L.R. inch	UTQG	RR	WG	NOISE
18	215/35ZR18	84W XL	607	218	8,0	7,5	11,3	340 A A	F	C	71B
	225/35R18	87W XL	615	230	8,2	8,0	11,4	340 A A	F	B	71B
	255/35ZR18	94W XL	635	260	8,2	9,0	11,7	340 A A	E	B	72B
	265/35R18	93W	643	271	8,2	9,5	11,9	340 A A	E	B	71B
	215/40R18	89V XL	629	218	8,0	7,5	11,6	340 A A	E	C	71B
	225/40ZR18	92W XL	637	230	8,2	8,0	11,8	340 A A	E	B	71B
	235/40ZR18	95W XL	645	241	8,2	8,5	11,9	340 A A	E	B	71B
	245/40ZR18	97Y XL	653	248	8,2	8,5	12,0	340 A A	E	B	71B
	215/45R18	93W XL	651	213	8,2	7,0	12,0	340 A A	E	C	71B
	225/45ZR18	95W XL	659	225	8,2	7,5	12,1	340 A A	E	B	71B
	235/45ZR18	98W XL	669	236	8,2	8,0	12,3	340 A A	E	B	71B
	245/45ZR18	100W XL	677	243	8,2	8,0	12,4	340 A A	E	B	71B
	255/45ZR18	103W XL	687	255	8,2	8,5	12,5	340 A A	E	B	72B
	225/50R18	95W	683	233	8,2	7,0	12,5	340 A A	E	B	70B
	235/50ZR18	101W XL	693	245	8,2	7,5	12,6	340 A A	E	B	71B

	Size	L.I. / S.R.	O.D. mm	S.W. mm	T.D. mm	R.W. inch	S.L.R. inch	UTQG	RR	WG	NOISE
19	275/30ZR19	96W XL	649	278	8,2	9,5	12,0	340 A A	E	B	72B
	215/35ZR19	85W XL	633	218	8,2	7,5	11,8	340 A A	F	C	71B
	225/35ZR19	88W XL	641	230	8,2	8,0	11,9	340 A A	F	B	71B
	235/35ZR19	91W XL	647	241	8,2	8,5	12,0	340 A A	E	B	71B
	245/35ZR19	93W XL	655	248	8,2	8,5	12,1	340 A A	E	B	71B
	255/35ZR19	96Y XL	661	260	8,2	9,0	12,2	340 A A	E	B	72B
	275/35ZR19	96W	675	278	8,2	9,5	12,5	340 A A	E	B	71B
	245/40ZR19	98W XL	679	248	8,2	8,5	12,5	340 A A	E	B	71B
20	275/30ZR20	97W XL	674	278	8,2	9,5	12,6	340 A A	E	B	72B
	225/35ZR20	90W XL	666	230	8,2	8,0	12,4	340 A A	E	B	71B
	245/35ZR20	95W XL	680	248	8,2	8,5	12,6	340 A A	E	B	71B
	255/35ZR20	97W XL	686	260	8,2	9,0	12,7	340 A A	E	B	72B