



SUMITOMO RIKO Company Limited

(TOKAI RUBBER INDUSTRIES,LTD.)

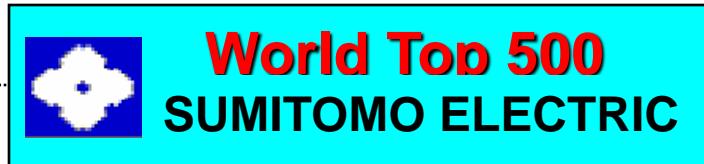


TRFH CO.,LTD

2015 Company Profile



Sumitomo Electric Group



DUNLOP



SUMITOMO RIKO
(TOKAI RUBBER)



SWS



TRFH



Company History

1929 : Established in Yokkaichi, Mie Pref.

1937 : Joined SEI (Sumitomo Electric Ind.) Group

1942 : SOP Hydraulic Hose products

1954 : SOP Anti-vibration products

1960 : SOP Automotive Hose products

1988 : Established DTR (OH, USA)

1999 : Established TRP (Wolbrom, Poland)

2002 : Global Alliance with Trelleborg & Hutchinson
: Established DRT (Korea) & TCU (Detroit, USA)

2003 : Established TRD, TRM, TRJ, TRG (China)

2004 : Established TRFH (China)

2005 : Established TIR (India)

2008 : New Technical Center open

2011 : Established TRID, TRHI(Indonesia)

2012 : Acquisition of Dytech (Italy)

2013 : Acquisition of Anvis (Germany) and Produflex (Brazil)

2014 : Company name changed to **Sumitomo Riko Company Limited**



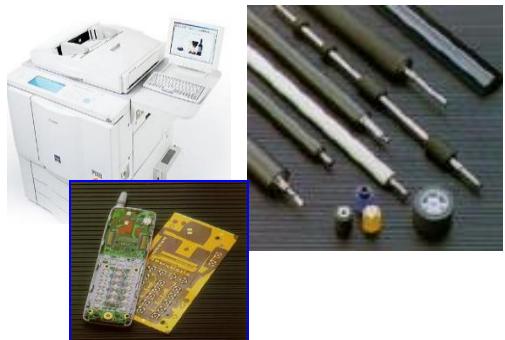
TOKAI RUBBER INDUSTRIES,LTD.
Komaki City, Aichi, Japan



TRFH CO.,LTD
Hefei City, Anhui, China

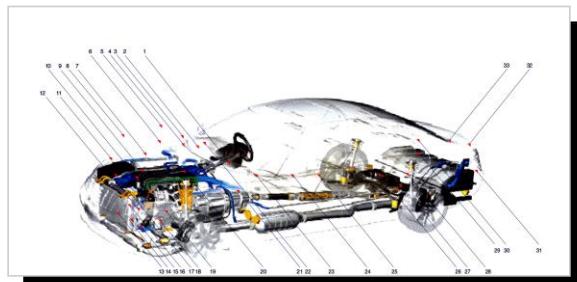
SRK Business Segments (Consolidated)

IT Materials Products



14%

Automotive Products



77%

Industrial Products



8%

2013 Results : Net Sales ￥ 360 Billion ≈ USD 3Billion

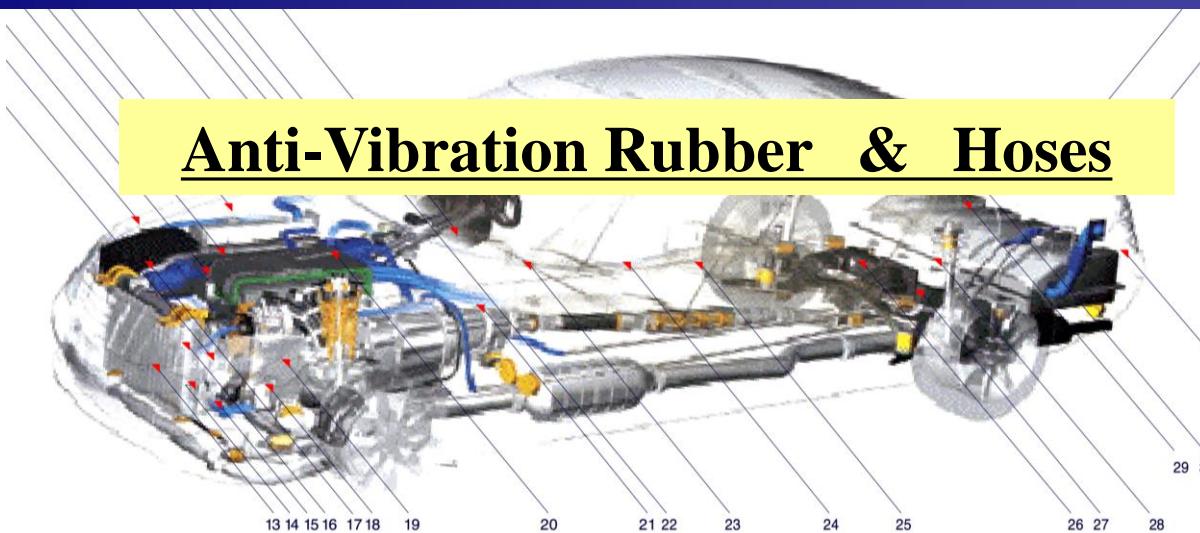
: # of Employees 21,000

Operation Sites : Japan 8 plants

: Outside of Japan 102 sites in 24 countries

Automotive Products

Anti-Vibration Rubber & Hoses



Control Mounts
Suspension Parts



Rubber hoses



Urethan Parts

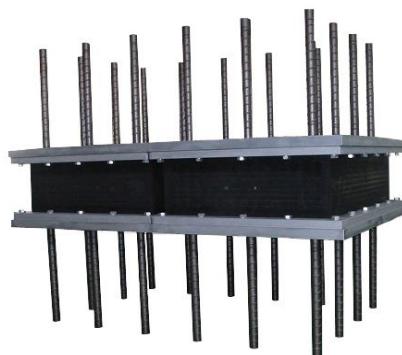
Hydraulic Hose for construction machine



Anti-Vibration Rubber for Housing



Anti-Vibration Rubber for Bridge



Anti-Vibration Rubber for Train



Japan Operation Sites

- SRK SUMITOMO RIKO Headquarter
- SRK R&D Center
- Komaki production site

Anti-Vibration

Hoses for automotive and industry

- Tokai Chemical Industries, Ltd.

Interior automotive

Soundproof, Urethane

- TRI Metex

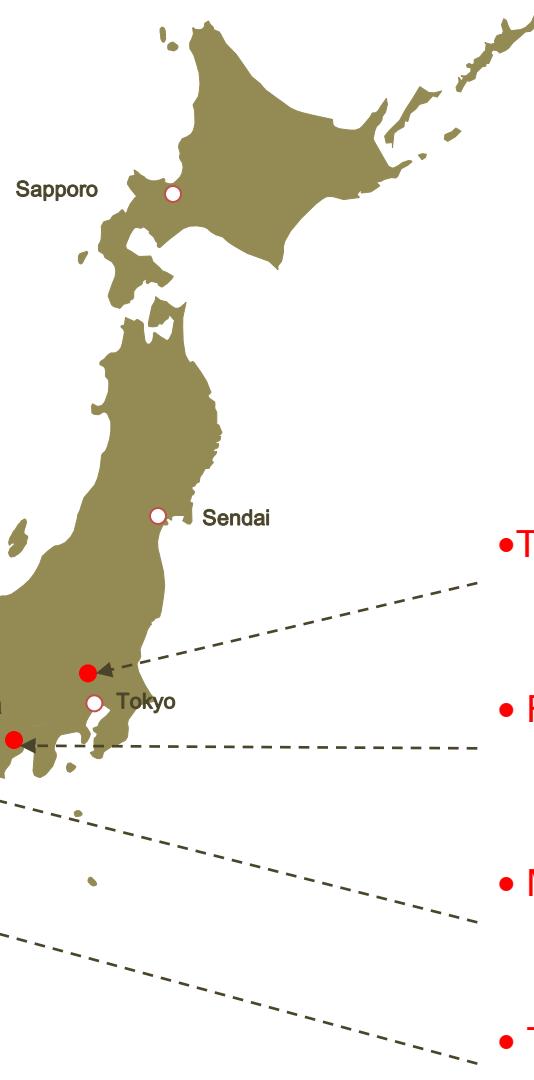
Stamping

- TRI Kyushu, Ltd.

Anti-vibration

Hoses for automotive

Hoses for industry



- TRI Saitama, Ltd.

Precision moulding
Anti-vibration

- Fuji-Susono plant

Anti-vibration
IT-related products

- Matsusaka plant

Hoses for automotive
Hoses for industry

- TRI Oita AE, Ltd.

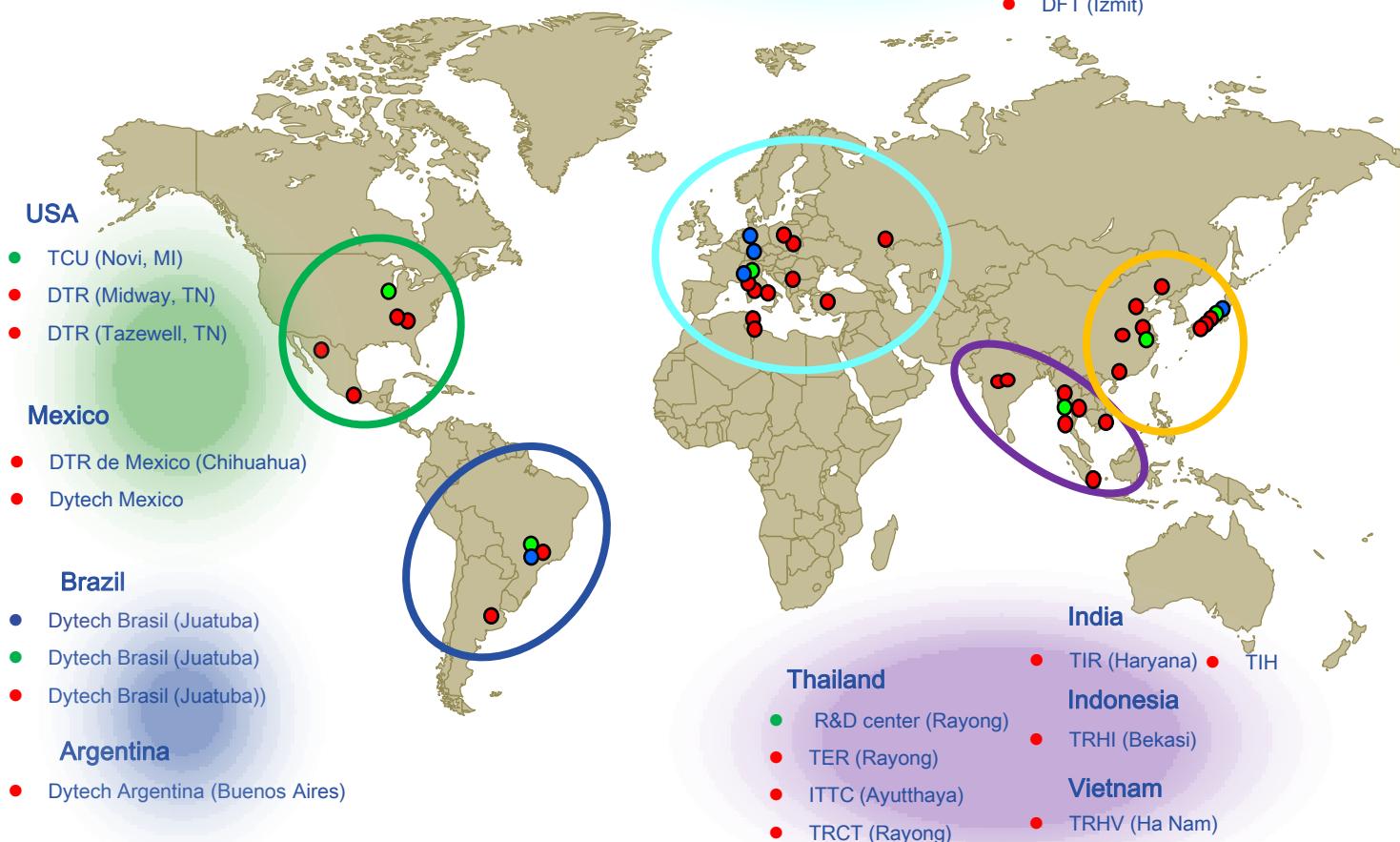
IT-related products

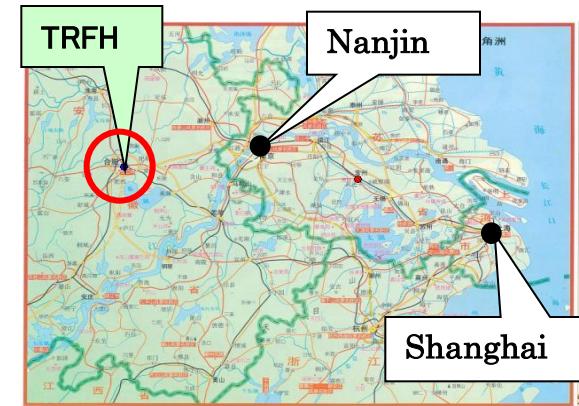
Global Footprint : 102 sites in 24 countries

Hoses

39 sites, 16 countries

- Production sites
- Research & Development
- Commercial offices





TRFH was founded in Hefei since 2004, the capital city of Anhui province and mainly engaged in the manufacture and sale of hydraulic hoses and other related products.

TRFH handle all processes from the production of hoses and metal fittings to assembly.

【 TRFH Profile 】

- Location: Economic and Technological Development Zone in Hefei, Anhui, China
- Capital: JP\3.4 billion (US\$42.5million)
- Stockholder: TokaiRubber 89.2%Fukoku10.8%
- Sales(2011): RMB 298million/year (US\$46.6million)
- Capacity: 3.2million pcs/year · Employee: 500jobs
- Customer: For Construction machinery, Forklift, Machine tool
- Quality: Acquired ISO9001, ISO14001



All of our Hydraulic Hoses, Couplings and Assemblies manufactured in China

This is the second largest global production base after the headquarter in Komaki Japan.



Inner Tube Extrusion



Corporate Development

Braiding

Curing

Inspection/Shipping

- Apr 2004 Company founded and acquired Corporate Business License
- Mar 2005 Assembly production started
- Feb 2007 Acquired ISO9001,14001 certificate (BV certificate)
- Mar 2007 Coupling production started
- Jan 2008 Construction of Hefei No.2 plant completed and hose production started
- Nov 2010 Attended Shanghai Bauma Fairs
- Nov 2010 Changzhou branch founded and assembly production started
- Apr 2011 Shanghai Sales office founded
- Nov 2011 Construction of No.2 hose plant completed
- Nov 2012 Attended Shanghai Bauma Fairs

Product Line of TRFH Industrial Hoses

Hydraulic Hoses



Hose with Multiple dimension bend pipe



High Pressure Hose
(SHD, SIB Series)



Hose range

- ①Size : 6 ~ 50 (φ)
- ②Pressure : 3.5~42(MPa)
- ③Fluid : Oil

For Hitachi, Caterpillar, Komatsu, Sany etc...

Main Customer



We have a big market share in Excavator Market

LIEBHERR(Global supplier)、Kato(Japan,China)、
SUMITOMO(Japan China Indonesia,India)、
HITACH(Japan ,China,Indonesia,Russia)

DEER & HITACH(USA,Brazil,Canada)

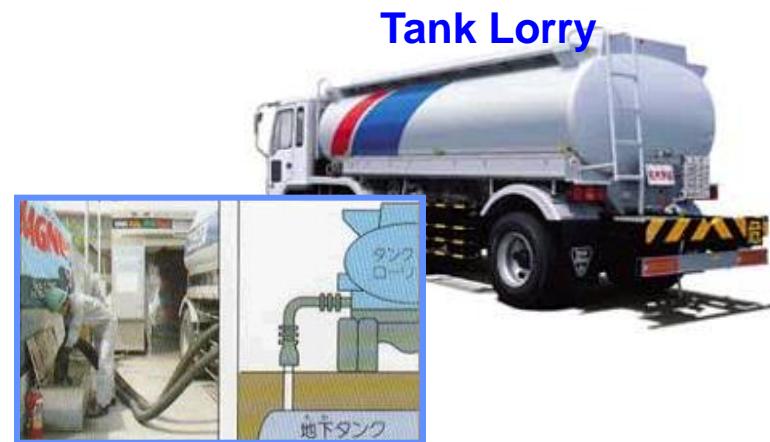
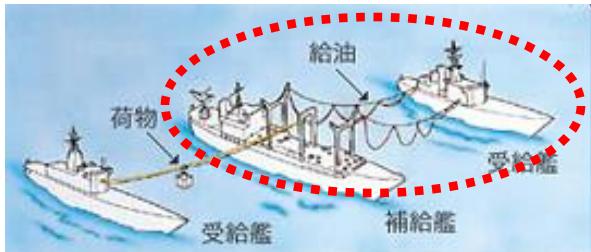
China Brand(SANY,XCMG,LiuGong,SDLG,ect...)



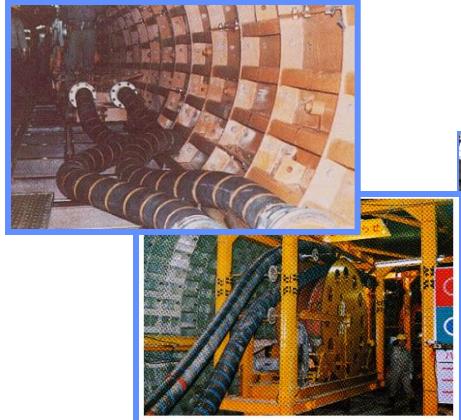
Product Line of TRI Industrial Hoses

Industrial Hoses

Fuelling



Concrete, Earth and sand



Shielded Machine



Concrete pumping truck

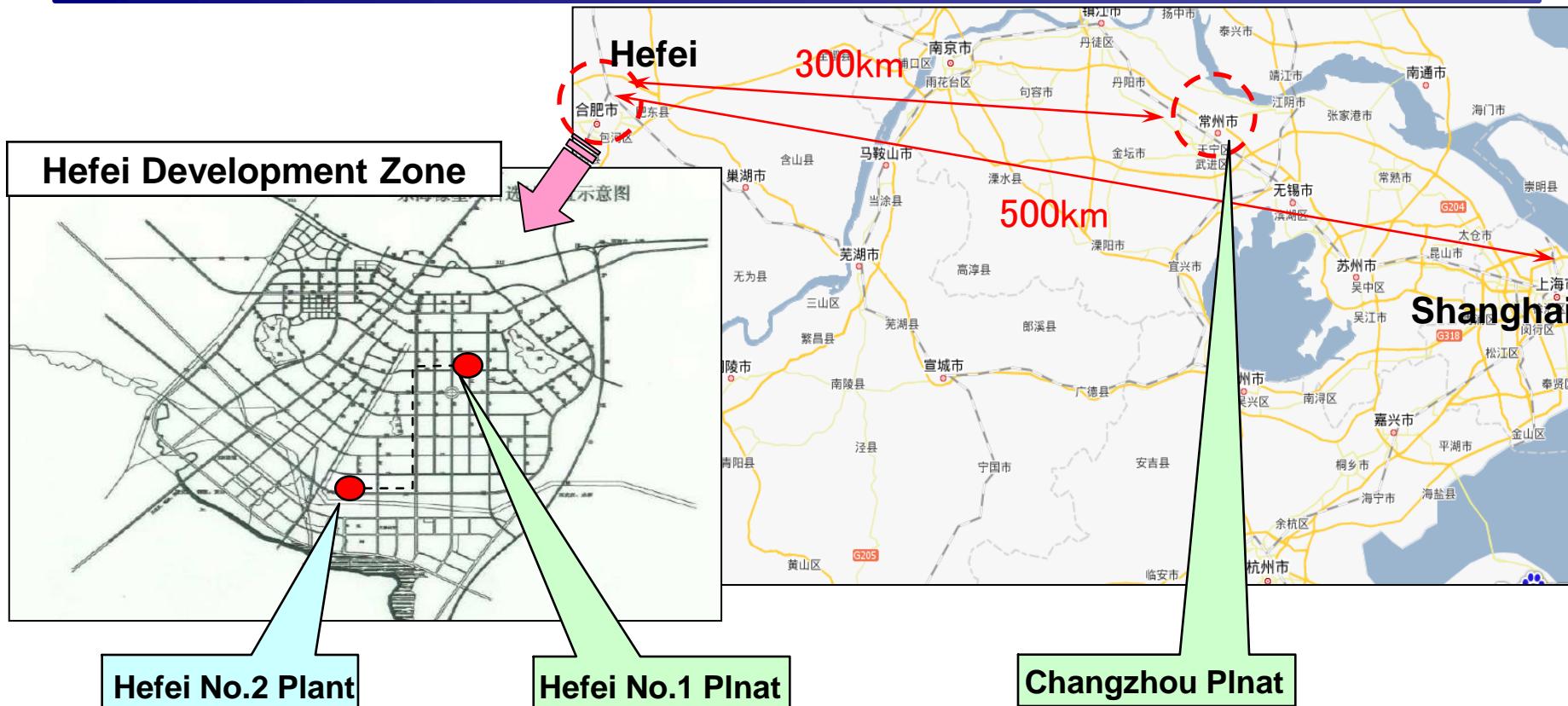


【Hose range】

- ①Size : 6 ~ 300 (φ)
- ②Pressure : -0.5~2(MPa)
- ③Fluid : Heavy Oil, Earth and sand, Water



Facility Location



Hose & Coupling Plant
Plant : 54,400cm²
Building: 23,200cm²

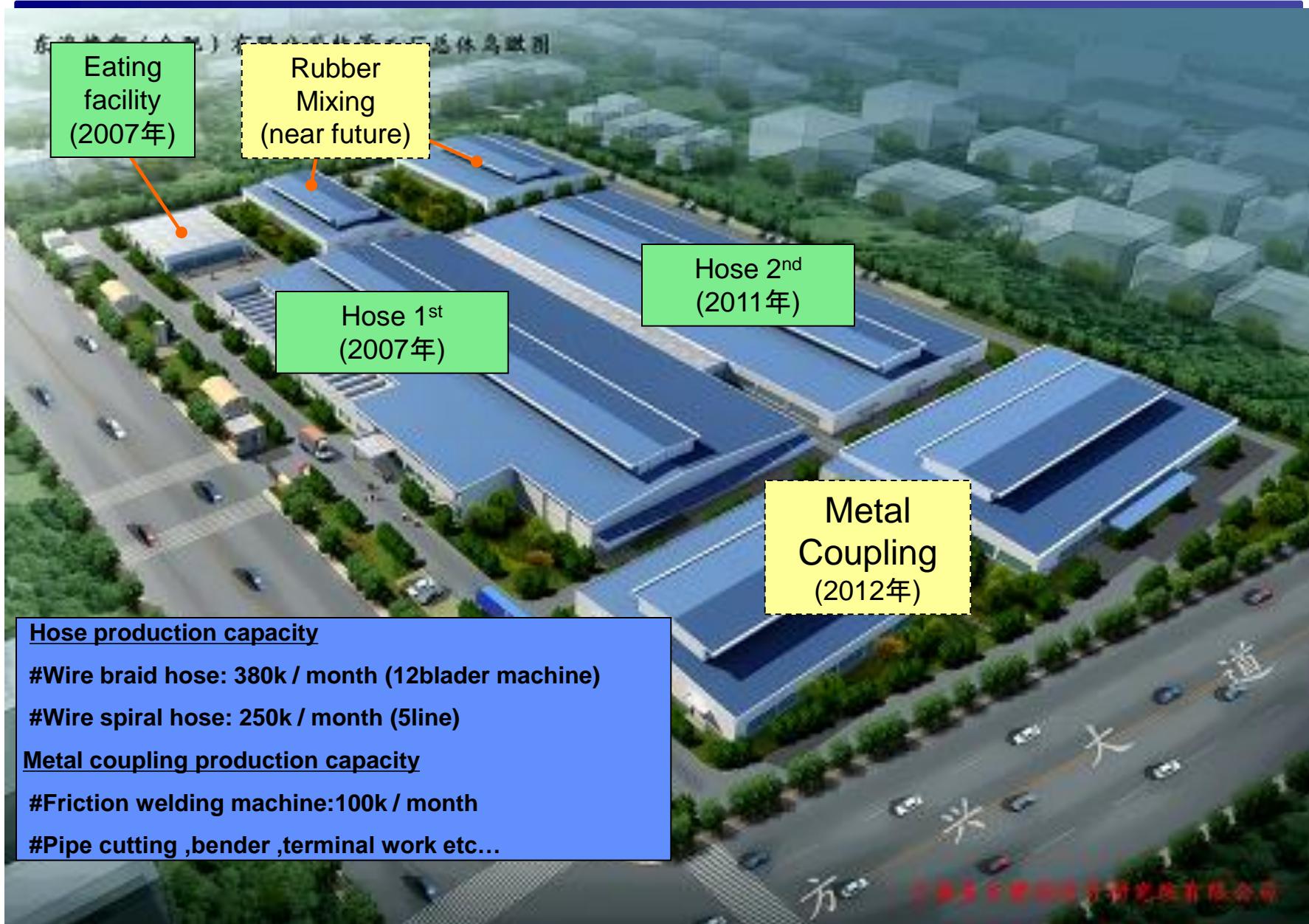


Assembly Plant
Plant : 10,500cm²
Building: 4,600cm²



Assembly Plant
Plant : 3,000cm²

TRFH Hefei 2nd Plant



Quality

ISO9001,ISO14001

The certificate CAT quality management program
MQ11005 was already given to TRFH.

MSHA (Mine Safety and Health Administration)
Accepted hydraulic hose under the interim fire criteria
Tokai's ID number is IC-263/0.

CATERPILLAR®

Supplier Quality Excellence Process

Presented in recognition
of achieving
Caterpillar MQ11005
supplier certification.

Through demonstrated results,
this supplier has exhibited
excellent process control,

Tokai Rubber (Hefei) Co., Ltd.
Hefei City, Anhui Province, P.R. China
Hose Assembly
Certification Award Date - December 7, 2008

MINE SAFETY AND HEALTH ADMINISTRATION

Approval and Certification Center
Materials and Explosion Testing Branch
Accepted Hydraulic Hose
Under the Interim Fire Criteria

<u>Company</u>	<u>Acceptance Number</u>
Tokai Rubber Industry LTD 1 Higashi 3 Chone Komaki-Shi Aichi-Ken 485-8550 Japan	IC-263/0

Vice President
CATERPILLAR®
Caterpillar Inc.
Peoria, Illinois 61629

January 7, 2008

Mr. Ttatuta
Tokai Rubber (Hefei) Co., Ltd.
Hefei City, Anhui Province
P.R. China 230601

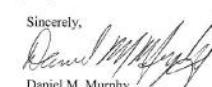
Dear Mr. Ttatuta:

On behalf of Caterpillar Inc., we congratulate Tokai Rubber (Hefei) Co., Ltd. on attaining the Caterpillar Inc. Supplier Quality Excellence Process Certification according to the MQ11005 standard – Bronze Level. This certification demonstrates your strong values and ethical principles in conducting business and your commitment to collaborate with our objective to implement a culture for “zero-defects” across our supply base.

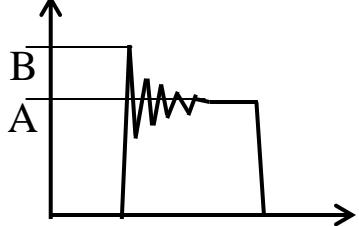
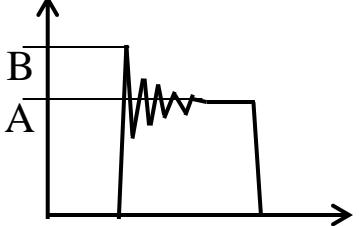
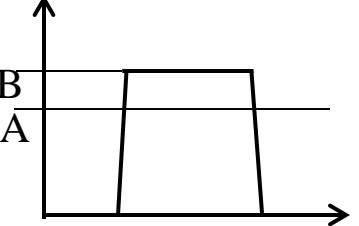
At Caterpillar, we view our suppliers as our business allies. We seek strong, mutually rewarding business relationships with suppliers who can enhance the quality of our products and services. Your achievement of this supplier certification validates your understanding of Caterpillar's expectations of a world-class supply base and your commitment to delivering the highest level of quality to our products and services.

Thank you for your commitment to quality.

Sincerely,


Daniel M. Murphy
Vice President
Global Purchasing Division
Caterpillar Inc.

Comparison of Required Property for Endurance test

	Hitachi Standard (X4509537)	JIS Standard (Japan)	SAE/DIN Standard
Pressure resistance(MPa)	W.Px200%	W.Px200%	W.Px200%
Minimum bursting pressure (MPa)	W.Px400%	W.Px400%	W.Px400%
Impulse Pressure(MPa)	$W.P(A) \times 150\% = (B)$	$W.P(A) \times 150\% = (B)$	$W.P(A) \times 133\% = B$
Waveform			
Minimum impulse pressure repetitions	1,200,000	1,000,000	200,000~400,000