

**TOSHIBA**  
AIR CONDITIONING



# LEADING INNOVATION FOR GREENER TOMORROW

Jan 2013

Mr. Hideyuki Kumazawa  
TOSHIBA Director - EMEA

Mr. Nick Ball  
Engineering Director - TOSHIBA EMEA

**TOSHIBA**

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*Carrier*

# Introduction

Hideyuki Kumazawa  
Toshiba Director

## Toshiba's *Monozukuri* DNA – curiosity and passion

*“Our commitment to excellence in manufacturing.”*

Not only has this spirit been evident since Toshiba's foundation, it also underpins Toshiba Group's “Commitment to People, Commitment to the Future.”



Man-nen Dokei

**1875**

Founder:  
**Hisashige  
Tanaka**



**1890**

Founder:  
**Ichisuke  
Fujioka**



Japan's first electric  
Incandescent bulbs

**Committed to People,  
Committed to the Future. TOSHIBA**



Established: July 1875 by Hisashige Tanaka

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Capital: 439.9 billion JPY (5.4 billion US\$)

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Total Assets: 5,731 billion JPY (69.9 billion US\$)

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Headquarters: Shibaura, Minato-ku, Tokyo, Japan

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Employees: 210 thousand (world wide)

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Net sales: 6,100 billion JPY (74.4 billion US\$)

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Overseas sales ratio: 55%

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Consolidated subsidiaries: 554(Japan: 188, Overseas: 366)

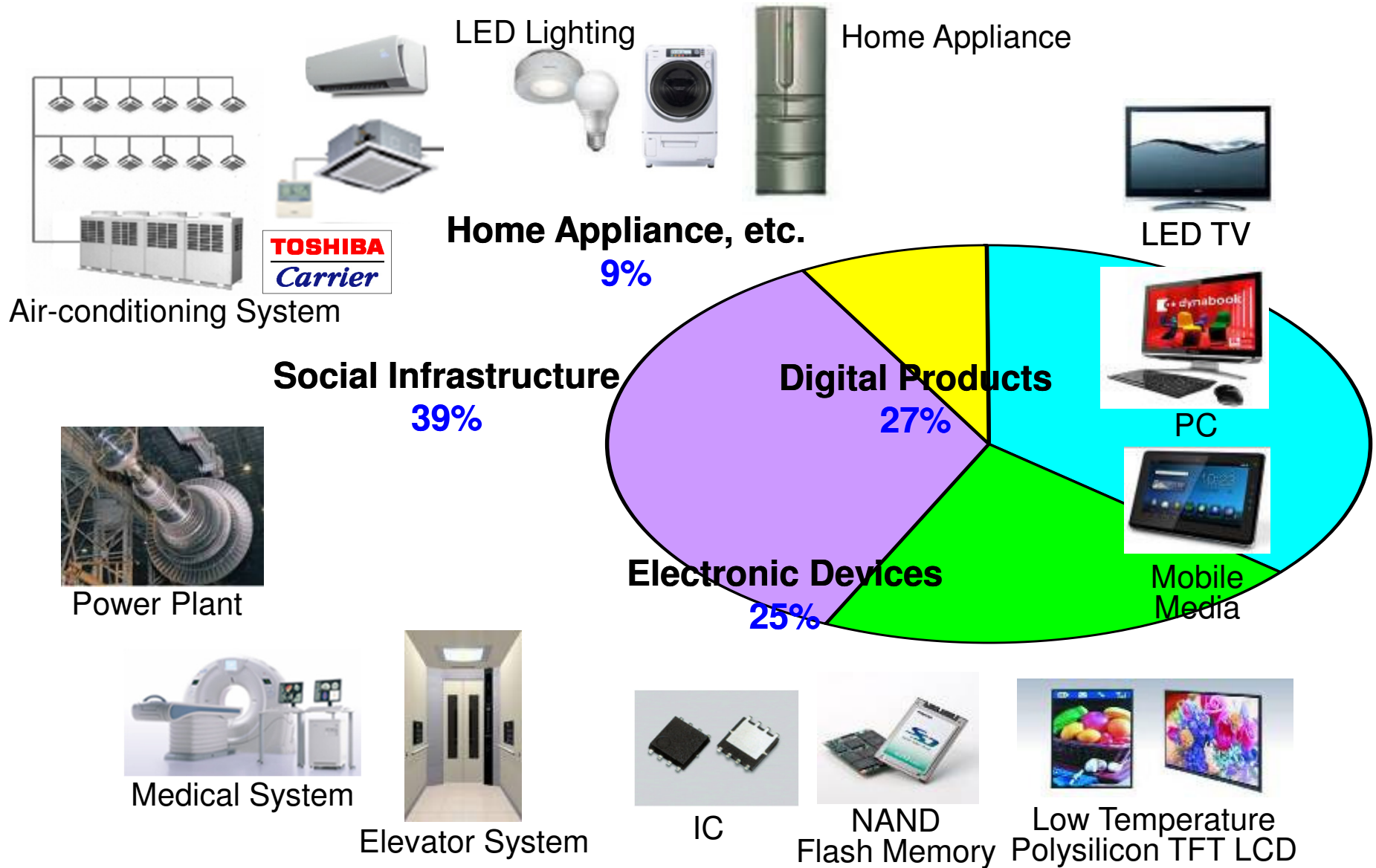
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- As of March 31, 2012
- Note U.S. dollar amounts have been converted at the rate of US\$1 = ¥82, for convenience only.



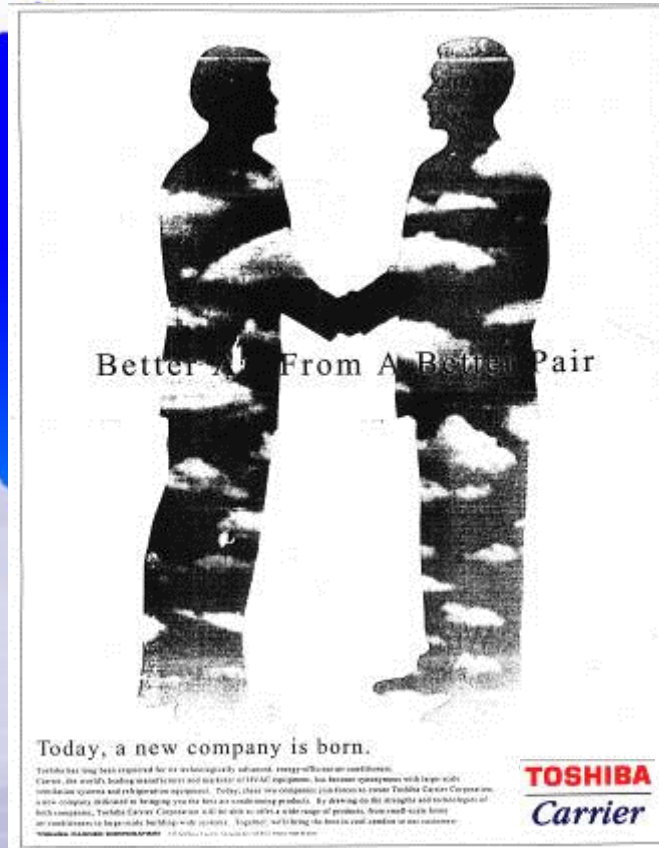
TOSHIBA HQ in Tokyo

# TOSHIBA's Business Products





In 1999



The alliance between TOSHIBA and Carrier was born.

Company name: TOSHIBA Carrier Corporation

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Headquarters: Tokyo, Japan

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Shareholders: Toshiba 60%/ Carrier 40%

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President & CEO: Akira Inoue

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Group company: 17 (Japan 8, Overseas 9)




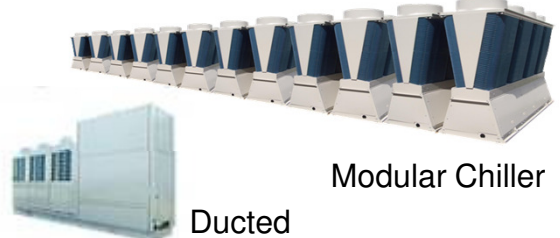
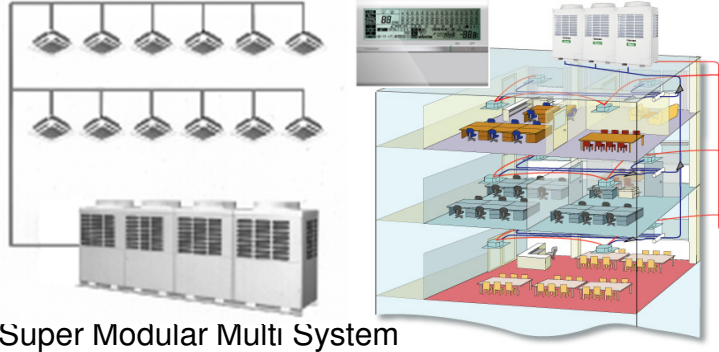



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Employees: About 3,200

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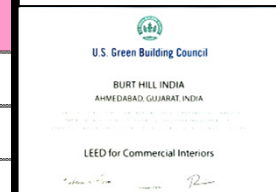
# Toshiba Product Range

<p>Residential A/C</p>		<p>Air to Water Heat Pump</p>	
<p>Light Commercial A/C</p>		<p>Chiller Ducted</p>	 <p>Modular Chiller</p>
<p>Building A/C System</p>	 <p>Super Modular Multi System</p>	<p>Rolling Stock</p>	
<p>Ventilation System</p>		<p>Refrigerator Device</p>	 <p>Compressor</p> <p>Inverter</p>



# Receiving Awards

1999	Energy Saving Award	Gold	Room AC
2000	Energy Saving Award	Gold	Room AC
2001	Energy Saving Award	Sliver	DC Twin Compressor
	Energy Saving Award	Bronze	LC
	JSP of Machine Industry Award		Helical Compressor
2002	Energy Saving Award	Sliver	LC
	Energy Saving Award	Bronze	Ventilation
	JEC Advanced Technology Award		DC Twin Vector Control Compressor
2003	Energy Saving Award	Sliver	LC
2004	Energy Saving Award	Sliver	Room AC
	Energy Saving Award	Sliver	Super MMS
	Energy Saving Award	Bronze	Ventilation
2005	Energy Saving Award	Sliver	LC
	JEC Advanced Technology Award		Inverter(IPDU)
2006	Energy Saving Award	Sliver	Showcase
2007	Energy Saving Award	Gold	Super Flex Modular Chiller
2008	Energy Saving Award	Gold	Super Power Eco Cube
2009	Energy Award in Korea	Gold	Super MMS(10HP)
2010	LEED Green Building Certificate in India	Platinum	Super MMS
	China HVAC Brand Award for Best energy saving	Gold	Super MMS
2011	Energy Award in Korea	Gold	Super MMS-i(14HP)
2012	Energy Award in Korea (Part load)	Highest class	Super MMS-i



# Toshiba Air Conditioners' History

**1930:** Developed Japan's first hermetic compressor (for refrigerator).

*Japan's First*

**1943:** Toshiba's Fuji Plant commenced its operation.

**1961:** Released world's first split air conditioners.

*World's First*



*Japan's First*

**1967:** Developed Japan's first rotary compressor for air conditioner.

**1935:** Released "Shibaura Room Cooler".

**1953:** Released Japan's first 1HP window room air conditioner.

*Japan's First*



**1968:** Released the rotary air conditioner, "KOKAGE".

# Toshiba Air Conditioners' History

**1981:** Released world's first inverter-based residential air conditioner.



**World's First**

**1999:** Toshiba Carrier Corporation commenced its operation.



**World's First**

**1993:** Released energy-efficient digital twin rotary air conditioners.

**2001:** Released world's first light commercial AC, Super Power Eco using DC Inverter Rotary Compressors (R410A refrigerant).



**1988:** Released scroll compressors.

**2000:** Released world's first helical compressor and air conditioner for building, Modular Multi System using R407C refrigerant in Japanese market.

**1997:** Released air conditioner with air purifier, "DAISEIKAI" series.



**World's First**



# Toshiba Air Conditioners' History

**2003:** Released the Super Modular Multi System, SMMS using R410A refrigerant.

**World's Largest**

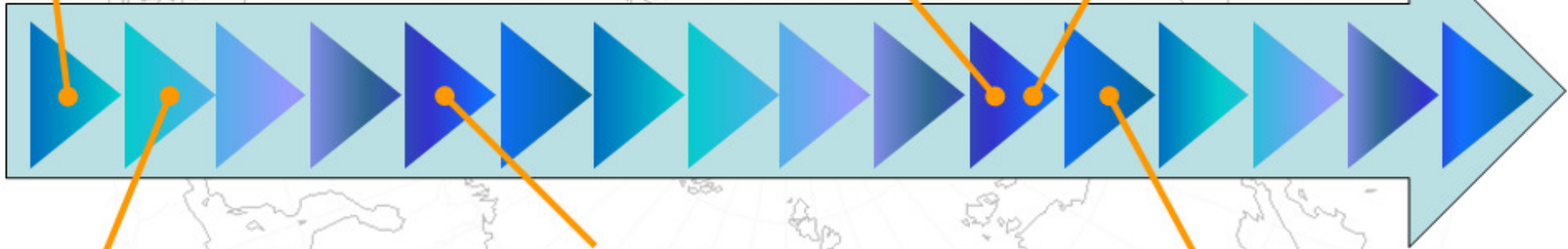


**2010:** Released the Super Modular Multi System - i, SMMS-i.

**SMMS**  
SUPER MODULAR MULTI SYSTEM



**2010:** Developed DC twin rotary compressor of the world's largest capacity.



**World's First**

**2004:** Developed world's first DUAL rotary compressor.

**2006:** Released the Super Flex Modular Chiller in Japanese market (R410A refrigerant).



**World's First**

**2011:** Released the voice controlled air conditioner in Japanese market.



**Thank you!**