

### **Tyco Electronics**

Analysts Presentation
Shanghai, PRC
Juergen Gromer
President, Tyco Electronics
May 26, 2004

**TUCO** Electronics

#### Analyst Meeting - Shanghai May 26, 2004 at Tyco Electronics

#### **Agenda**

8:30 – 9:15	Tyco Electronics Presentation	J. Gromer President, Tyco Electronics
9:15 – 10:00	Plant Overview & China Mfg.	M. Okamoto VP Global Communications, Computer and Consumer Electronics
10:00 – 10:15	Q & A	
10:15 – 11:00	Plant Tour	Telco Outside Plant / Energy Site M. Okamoto
11:00 – 11:15	Transfer to CC&CE Plant Site	
11:15 – 12:00	Plant Tour	CC&CE Plant - M. Okamoto

### **Forward Looking Statement**

This presentation and/or the accompanying presentation materials may contain certain "forward-looking statements" within the meaning of the United States Private Securities Litigation Reform Act of 1995. These statements are based on management's current expectations and are subject to risks, uncertainty and changes in circumstances, which may cause actual results, performance or achievements to differ materially from anticipated results, performance or achievements. All statements contained herein that are not clearly historical in nature are forward looking and the words "anticipate," "believe," "expect," "estimate," "plan," and similar expressions are generally intended to identify forward-looking statements. The forwardlooking statements in this presentation and/or accompanying presentation material include statements addressing the following subjects: future financial condition and operating results. Economic, business, competitive and/or regulatory factors affecting Tyco's businesses are examples of factors, among others, that could cause actual results to differ materially from those described in the forward-looking statements. Where we have used non-GAAP financial measures, reconciliations to the most comparable GAAP measure are provided, along with a disclosure on the usefulness of the non-GAAP measure.

#### **Segment Overview \***

#### **Electronics Segment**

2003 Revenue \$10.5 billion 54 Countries

## Electronic Components 2003 Revenue \$10.4 billion 80,000 Employees



Designs, manufactures and markets a broad range of electronic, electrical, and electrooptic passive and active devices

## Telecommunications 2003 Revenue \$140 million 475 Employees



- Designs,
   manufactures and
   installs undersea
   telecommunication
   systems
- Services and maintains undersea telecommunication systems

#### **Unparalleled Brands**

**AGASTAT** 

Alcoswitch<sup>®</sup>

AMP

ASG

AXICOM

CHIP COOLERS



corcom



**Crompton Small Motors** 



DITEL







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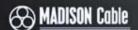
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## Largest Global Sales Force in the Industry



#### **World Class Customers**

#### **Telecommunications**

Computer & Consumer Electronics

#### **Automotive**

Industrial & Distribution

3Com
Alcatel
Bell South

Bell South

**China Telecom** 

Cisco

**Deutsche Telekom** 

**Ericsson** 

**Lucent Technologies** 

Motorola Nokia Nortel NTT

Siemens Telefonica

Verizon

Dell

HP/Compaq

**IBM** 

**Matsushita** 

Philips Sony

**Sun MicroSystems** 

**Toshiba** 

**BMW** 

DaimlerChrysler/

Mitsubishi

Ford GM/Fiat Honda Porsche

PSA

Renault/Nissan

Toyota VW Bosch

**Conti Temic** 

Delphi Denso

Dräxlmaier

Hitachi

Lear

Leoni

Motorola

Siemens/VDO

**Sumitomo** 

TRW Valeo

Visteon

Yazaki

ABB

Agilent Airbus

Boeing

ConEd

**Electrolux** 

GE

Hitachi

Invensys Mitsubishi

Raytheon

Rockwell

**RWE** 

Samsung

Schneider Group

Siemens Toshiba UTC

**Whirlpool** 

Anixter

Arrow

Avnet/Kent

**Eurodis** 

Future Sonepar

TTI

#### **EMS**

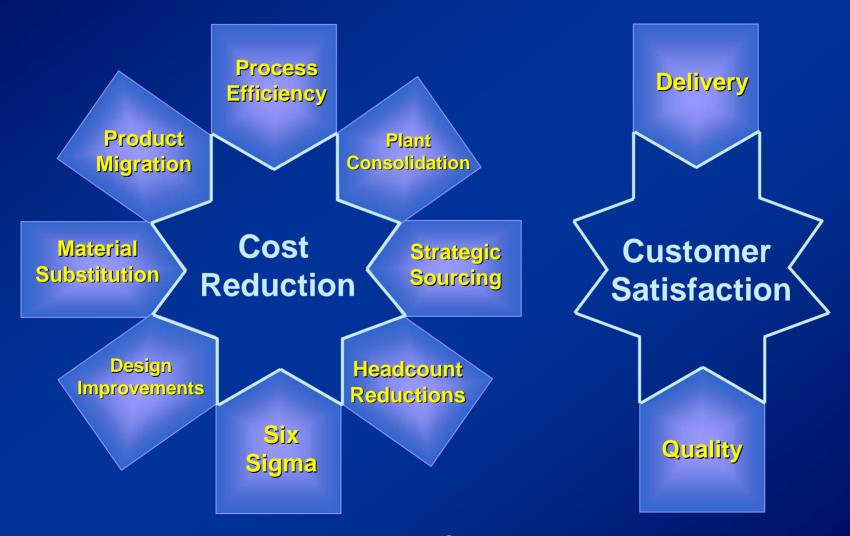
Celestica Flextronics

SCI

Solectron

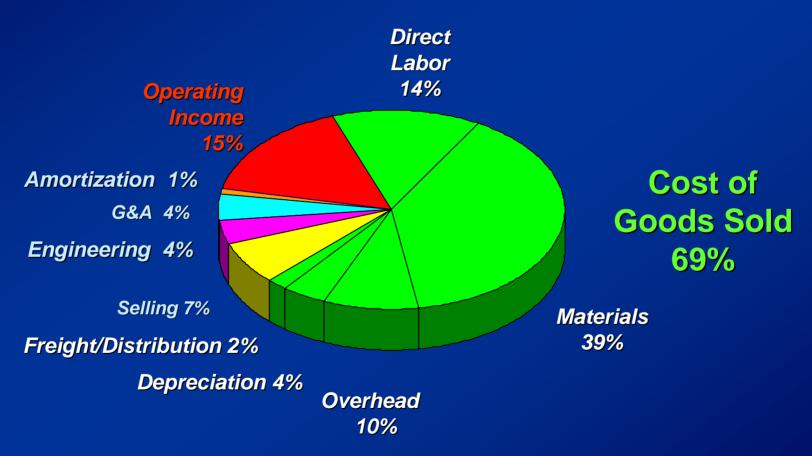
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## Accelerating Performance: Operational Excellence



#### **Total Cost Overview**

#### Percent of Sales



<sup>\*</sup>A reconciliation to GAAP Operating Income can be found in the Appendix on the Electronics Segment Overview Page

**Tyco** Electronics

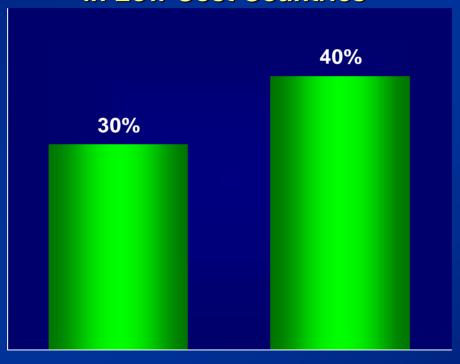
Manufacturing Sites Consolidation



**40% Site Reduction Over 4 Years** 

#### **Low Cost Production Plans**

Percent of Production in Low Cost Countries



FY03 FY06

~33% Increase By 2006

### **Strategic Sourcing Initiatives**

#### 2004 Estimated Material Spend = \$4.1 Billion

- One Tyco
  - Leveraging volume effects both on TE and corporate level (conductor wire, magnet wire, PBL materials, magnets, cores)
- Qualification of lower cost materials and alternative suppliers
- Develop raw materials suppliers in Asia, mainly China
- Global Sourcing China, Taiwan, India

Targeted 6+ % Savings on Spend

### **Strategic Sourcing Initiatives**

- e-Bidding, e-Auctions, internet solutions
- Standardization of material & components
- Early Involvement in specification of material leverage new activity
- Renewed focus on indirect spend
- Reduce spend on capital equipment and spare parts by leveraging volume and sourcing in China and Eastern Europe

### **Supply Chain Initiatives**

- Simplify the Supply Chain
  - Reduction of warehouses
  - Reduction of suppliers
- Consignment & Just-in-Time Programs
- Expand EDI Links with Customers
- Increase Direct Drop Shipments
- Flexible Manufacturing Processes
  - Shorter Lead Times

**Continuous Improvement in Delivery Performance** 

### **Customer Satisfaction Quality**

Improve Process Quality (Measured in PPM)



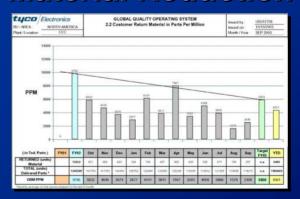
### Reduction in Number of Incidents



#### **Scrap Reduction**



### **Customer Return Material Reduction**



Six Sigma Focus

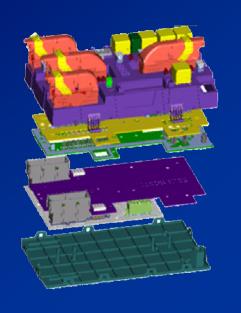
### **Design to Cost**

- Key Elements for Low Cost Design
  - Clear ObjectivesSpecs/Schedule/COST
  - Accurate Design Systems
     Design to what you need
  - Multidisciplinary Development Team
     Elect, Mech, Mfg, Purchasing, Customer
  - Investment
     Tooling, Automation, Engineering Talent

**Low Cost Is Not Low Tech** 

## Design to Cost: Automotive Fuse/Relay Box

#### **Initial Design**



<b>5</b>	Layers	3

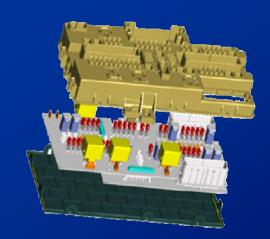
5 Contact Types 2

12 Screws Ultrasonic Weld

11 Wire Bridges

Tooling & Floor space - 40%

**Final Design** 



**Cost Reduction – 25%** 

## Products: Strong Leadership Positions

Product Segments	Market Position	Major Competitors		
Connectors	1	Molex, FCI, Delphi, Hon Hai, Amphenol, Methode, Sumitomo		
Relays	1	Omron, NEC, Denso, Hella		
Heat Shrink Tubing / Harnesses	1	Sumitomo, Cannusa, DSG		
Touchscreens	1	3M, Guzo, Eturbo Touch		
PolySwitch™ Devices	1	Littelfuse, Bourns, Polytronics		
Multifunction RF Assemblies	1	REMEC, ST Microwave, Herley, Ball Aerospace		
Application Tooling	1	KOMAX, JAM		
Wireless Systems	2	Motorola		
Fiber Optic Components	2	Agilent, JDS Uniphase, Yazaki		
Power Systems	3	American Power, Power One, Emerson, Marconi		
GaAs/Silicon/Passive Components	3	Motorola, RFMD, Skyworks (Alpha), Watkins-Johnson		
Printed Circuit Boards	10	Sanmina, Compeq Mfg Co, E&E, Merix		

#### Tyco Electronics' Strength – Product **Portfolio**

= Product Segment Position

Key Pro Segn Company	oduct nent	rinals &	Connection and Assert	ors holes holes sr	art cit	cuit Prote	sction , deless pri	nked Circu	it Boards	S Capital	s Post	ctoric N	net to	ins uchscreens
Тусо														
Amphenol														
Cannon														
FCI														
Foxconn														
JST														
Molex														
Omron														
Power One														
Skyworks														
Teradyne														
3M														

**Scale and Diversification** 



#### **Market Share Strategy**

- Excel in High Growth Markets
- Leverage Product Portfolio Increase Market
   Share for all Products with our Customers

### New Sales Model

Increase Sales
Force in High
Growth Regions

Focus on **Emerging Markets** 

Global Account
Management
Program
(GAM)

Focus on Large Accounts

Sales
Opportunity
Program
(SOP)

**Focus on Small to Medium Accounts** 

#### **GAM and SOP Programs**

- Build & manage a worldwide sales team for each targeted account to sell all products
  - Includes cross training of product offerings
  - Establishing communication networks in sales across the globe and business units
- Align with customer purchasing organizations to lower their supply base and provide more cost savings by using Tyco
  - Determine the total sales potential for all products
- Establish detailed customer account plans for accountability
- Drive program using commission incentives for GAMs driven by total product sales (all business units)

Leverage the Breadth and Size of Tyco Electronics to Gain Market Share

## High Growth Market Opportunities



Latin / South America

Share Potential 5Yr CAGR
10% \$1 B 5%-10%

China and India

Share Potential 5 Yr CAGR
11% \$10 B 15%-20%

**Significant Emerging Market Potential** 

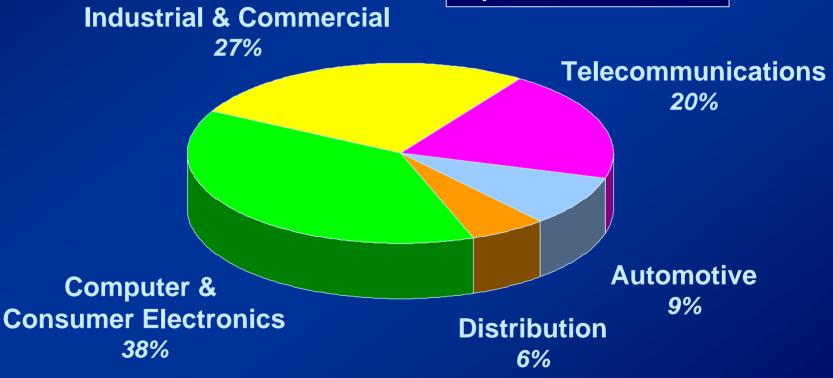
#### Why Is China So Important?

- Significant Local Market Potential
- International Customers in China Request Local Supply
- Cost Competitiveness
- Time to Market Through Manual/Semi-Automatic Assembly Equipment
- Flexibility

#### **Tyco Electronics' China Sales**

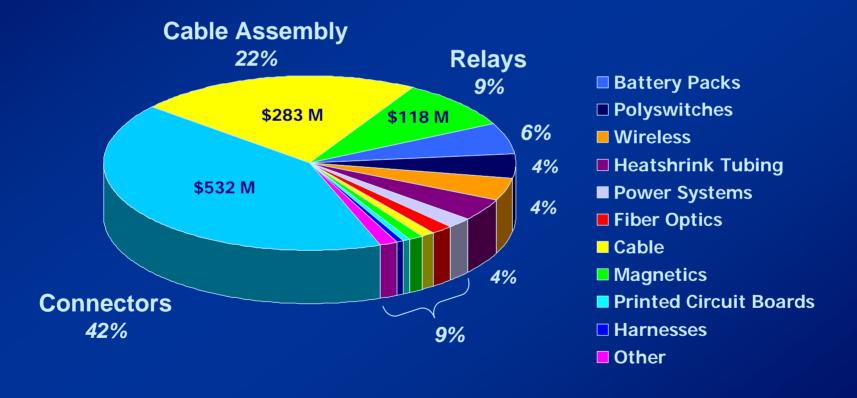


Local Sales: 51% of total Export Sales: 49% of total



### China Sales by Product Segment

FY2003 Total Sales \$1.3 billion



## Significant OEM and Local Customer Base – Top Customers in China - 2003

Alcatel Shanghai Bell	<b>-</b> GM	■ Motorola Inc.		
Arrow Electronics	■ HK Wiring Systems	Philips Electronics		
Asustek	Huawei Technologies	Quanta		
■ Changchun Electric	■ Ingram Micro	■ Shanghai Donqi		
Cherry	Jabil Circuit	■ SH PTAC		
■ Chun Fat Enterprises	Kun Shan Hugang Automobile	Solectron		
CLP Power Hong Kong Ltd	■ Lear	■ Sumitomo		
Compal Electronics	Lucent Technologies	■ Takane Denki		
Delphi	■ Maximax Ltd.	■ Tech-Front		
Flextronics	■ Microstar	USI Electronics (Shenzhen Ltd.)		
■ Ford	■ Mitac International	- VW		

#### **Investment in China**

Category	\$ US in Millions
Machinery & Equipment	\$ 232
Buildings & Land	\$ 56
Gross Fixed Assets	\$288*

<sup>\*</sup>As of 9/30/03. Excludes \$16 Million in Hong Kong.

## Tyco Electronics' Current Manufacturing Footprint



## China Manufacturing Products & Employees by Facility

Facility	Products	Total Employees
Shanghai - AMP	Connectors	1,908
Guandong	Connectors, Cable Assemblies	3,047
Quingdao	Connectors, Relays	3,198
DongGuan - FAI	Cables, Cable Assemblies	2,420
Shenzhen	Relays	3,552
Kunshan	Circuit Protection, Cable Assemblies	880
DongGuan Transpower	Magnetics	5,042
Shanghai - WGQ	Fiber Optics	470
Wuxi	Telecom Outside Plant	43
Zhuhai	Cable Assemblies	386
Shanghai - PCG	PC Board Assemblies	140
Zibo	Insulators	87
Shanghai - Raychem	Heat Shrink Tubing, Battery Packs	879
		22,052

300,000 Square Meters of Capacity

## China Cost Reduction Example - Migration

Conversion Cost Comparison Connector Plant

United

US\$	00	0's

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Expenses	States		China	
Labor Related	\$29,700	62%	\$6,600	35%
Fixed (Depr/Utility/Taxes)	13,900	29%	6,700	36%
Variable - Non Labor	4,100	9%	5,500	29%
Total Conversion Cost	\$47,700		\$18,800	

#### 61% Reduction

before Freight Cost Impact (approx. 15-20%)

#### **Expected Production Migration**

Next 18 Months



\$320 Million of Sales Value



### China – Expected Market Development

**Next Five Years** 

- Local market growth of 20% per year to \$20 billion
  - Plus further migration of key customers
- Tyco Electronics Target
  - Annual growth: 20% to 25% per year
  - Grow from \$1.3 B → \$3 to \$4 B

## Tyco Electronics: Expansion Plan in China

### Global Industrial & Commercial

- 20,000 m<sup>2</sup>
- \$8 million of capital
- 500 to 1,000 employees

#### Global Automotive

- 30,000 m<sup>2</sup>
- \$20 \$22 million of capital
- 2,000 3,000 employees

## Communications, Computer & Consumer Elect.

- 15,000 20,000 m<sup>2</sup>
- \$15 million of capital
- 3,000 employees

#### Shanghai Engineering Center

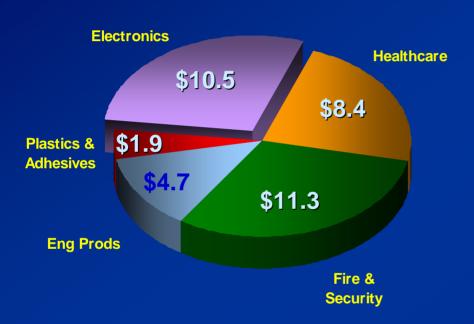
- Additional space of 2,000 2,500 m<sup>2</sup>
- \$4 million of capital
- 341 additional employees

#### **Tyco Electronics...**

- The Technology Leader
- Solid Organic Growth Outlook
- Significant Operational Excellence Opportunities
- Strong Operating Leverage with Improving Global Economy

### Tyco International \*

#### 2003 Revenue



## 2003 Operating Income



\$36.8 billion

**\$4.2 billion** (excl. Corp. Exp.) (\$3.1 billion including Corporate Expenses)



## Tyco International \* - Multi-Industry Leadership

#### **Electronics**

- **#1 Connectors**
- #1 Heat Shrink Tubing
- **#1 Circuit Protection Devices**
- #1 Cable Identification
- #1 Relays



#### **Healthcare**

- #1 Wound Care
- #1 Vascular Compression
- **#1 Sharps Containers**
- **#1 Incontinence Care**
- #1 Electrosurgery

#### Plastics & Adhesives

- #1 Industrial Duct Tape
- #1 Garment Hangers

#### **Engineered Products**

- **#1 Industrial Process Valves**
- **#1 Water Utility Valve Products**
- #1 Steel Pipe & Tube... Electrical Conduit
- **#1 Fire Protection Products**

#### Fire & Security

- #1 Fire Protection Installation
- #1 Fire Protection Product
- #1 Fire Protection Service
- #1 Security

2003 Revenue of \$36.8 B - Over 2/3 of From #1 Products



#### **Diverse Portfolio of Leading Brands**







# Engineered Products & Services UNISTRUT GENERAL SERVICES WILLIAM DIVISION KEYSTONE



## Tyco International - Accelerating Performance in 2004

- Market Leadership in Attractive Industries
- Solid Growth Strategies in Every Segment
- Significant Operational "Runway"
- Strong Cash Flow / Improving Balance Sheet

### **Appendix**

### **Electronics Segment Overview \***

All data in millions and translated at historical rates

2003 Sales & Operating Income Reconciliation	Sales	Op. Inc.	Op. Inc. %
Components	\$ 10,356.2	\$ 1,522.4	15%
Telecommunications	136.0	( 43.6)	n/a
Impairments / Restructuring		(237.3)	n/a
Total Segment	\$ 10,492.2	\$ 1,241.5	12%

<sup>\*</sup> Restated for classification changes as described in 8-K dated March 2004