

## ST Engineering at a Glance



### Aerospace Sector

#### Core Capabilities

- **Aircraft Maintenance & Modification**
  - Line and base maintenance
  - Technical services and maintenance planning
  - Modifications, conversions and refurbishment
- **Component/Engine Repair & Overhaul**
  - Engine maintenance, repair and overhaul
  - Aircraft mechanical and avionics components repair
- **Engineering & Materials Services**
  - Materials and spares support and management
  - Customised aircraft upgrade
  - Design, development and technology integration

#### Facts

- Ranked again as the world's largest aircraft maintenance provider by *Overhaul & Maintenance* 2005 survey, achieving 6.7m commercial airframe manhours in 2004
- Leverages wide range of services – airframe, engine and components maintenance including engineering design and technical services – to offer Total Aviation Support
- Worldwide network of facilities with diversified global customer base includes many of the world's leading airlines, airfreight operators and military operators
- 5,263 staff

#### Major Developments In 2005

- Signed an agreement to acquire 67% of SAS Component, a Copenhagen-based components repair service provider and material supplier
- Secured contracts with many of China's emerging airlines, reinforcing leading position in low cost carrier market
- Recognised by OEMs for quality of service and responsive turnaround, for example, Boeing's Supplier of the Year award to ST Aviation Services Co (SASCO) and induction into Airbus' MRO Network as a pioneer member
- STARCO, its Shanghai facility, commenced operations and obtained FAA certification
- Opened a new narrow-body hangar in Singapore to meet increasing demand

#### Revenue in \$m



#### Profit before tax in \$m



### Electronics Sector

#### Core Capabilities

- **Large-Scale Systems Group**
  - Intelligent transportation systems
  - Intelligent building management systems
  - Combat systems integration
- **Communication & Sensor Systems Group**
  - Satellite communication systems
  - Communication solutions
  - Radar and sensor systems
  - Information security systems
  - Electro-optics systems
  - e-Government communication systems
- **Software Systems Group**
  - Mobile & real time systems
  - Training & simulation systems
  - e-Government solutions

#### Facts

- Leading provider of satellite communication systems as well as multi-channel multipoint distribution systems in the world
- Specialist in rail transport comms systems with significant presence in Singapore and Taiwan
- Provides satellite tracking and fleet management systems for taxi fleets, commercial automobiles and municipal vehicles around the world
- 16 patents granted since 1998 with 40 patents filed
- 3,021 staff

#### Major Developments In 2005

- Acquired iDirect, a leading manufacturer of two-way Internet protocol based broadband satellite networking solutions
- Developed and launched the miniV - the world's smallest portable VSAT (very small aperture terminal) in its class in 2005 - successfully deployed for field tests in Indonesia following December 2004 tsunami
- Expanded into new markets including Maldives, Kazakhstan and India, and new regions in China
- Awarded contract to supply platform screen doors for Taipei's Mucha Extension (Neihu) Line
- Awarded a Harbour Craft Identification system project by the Singapore Maritime Port Authority

#### Revenue in \$m



#### Profit before tax in \$m



## Singapore Technologies Engineering Ltd

### Major Developments In 2005

- Expanded global operations, with strategic acquisitions of about \$550m, including SVC and iDirect in the US and SAS Component in Europe
- Won the first Republic of Singapore Air Force's Public-Private Partnership, a 20-year contract worth \$120m
- Installed about 800 multimedia classrooms worth \$52m throughout The Republic of Kazakhstan, a new market
- Launched world's smallest Very Small Aperture Terminal in its class, the miniV, at Global Security Asia

### Core Capabilities

- A global, integrated engineering group providing advanced solutions and services in the Aerospace, Electronics, Land Systems and Marine sectors
- Specialises in dual use technologies, with both military and commercial applications, which traverse traditional industry lines
- Provides integrated solutions for air, sea and land resources through a network-centric approach that leverages the strength of the Electronics sector and employs innovative technology to create customised solutions

## (ST Engineering)

### Facts

- One of the largest companies listed in Singapore and one of Asia's largest defence and engineering companies, with an order book of \$5.38b and total assets of \$4.57b as at end December 2005
- Global footprint in 17 countries and 29 cities, with over 100 subsidiaries, joint ventures and associates
- Vision Technologies Systems, ST Engineering's US headquarters, is located in Virginia
- Component stock of the DBS 50, FTSE/ASEAN 40, MSCI Singapore Free Index, S&P Asia Pacific 100 and Straits Times Index
- Awarded Best of its Class Distinction of the International Asia Pacific Quality Award 2005, in the Big Manufacturing Organization category
- 68 patents granted to date, with 201 patents filed
- Global workforce of 14,603 with 4,196 engineering staff

### Revenue in \$m



### Profit before tax in \$m



## Land Systems Sector



### Core Capabilities

- **Integrated Design Capabilities**
  - Multi role military platforms
  - Weapon systems and advanced munitions
  - Surveillance, remote operations, vetronics and fleet management systems
  - Emergency response, commercial and specialty vehicles
  - Military and homeland security protection solutions
- **Integrated Support Capabilities**
  - Maintenance, repair and overhaul of vehicles, weapons and material handling equipment
  - Accident repair and vehicle inspection
  - Engineering analysis and industrial test services
  - Training and agency representation
- **Integrated Production Capabilities**
  - Contract manufacturing
  - Industrial services

### Facts

- Offers a wide range of homeland security solutions, from emergency response vehicles to blast mitigation, surveillance and protection solutions
- Exports products and services to over 20 countries and represents major international defence companies marketing into Asia
- Operates Singapore's first independent automotive repair centre in China through STAR (Zhejiang) and STAR (Guangzhou)
- 26 patents granted to date, with 56 patents filed
- 4,626 staff

### Major Developments In 2005

- Acquired Specialized Vehicles Corporation, a leading US manufacturer of specialised truck bodies and trailers that service multi-stop food and beverage service distributors and municipal emergency rescue departments
- Formed Guizhou Jonyang Kinetics, a joint venture to design, manufacture and distribute a range of excavators, specialty vehicles and engineering products for the construction, mining and related industries
- Delivered the Pegasus 155mm 39 calibre lightweight howitzer to the Singapore Armed Forces

### Revenue in \$m



### Profit before tax in \$m



## Marine Sector



### Core Capabilities

- **Project Management**
  - Turnkey shipbuilding
  - Ship upgrading and conversion
  - Weapon systems integration and installation
- **Inhouse Design Expertise**
  - Custom designed naval and commercial vessels using inhouse CAD/CAM facilities
  - Lightweight ship design
  - Stealth technology
- **Shipbuilding Expertise**
  - Extensive water jet expertise
  - Thin gauge steel and aluminium construction for naval vessels
- **Maintenance**
  - Overhaul and maintenance of high performance marine engines
- **Ship Repair**
  - Upgrading and retrofitting
  - Conversion of commercial vessels

### Facts

- Five operating facilities – two in Singapore and three in the US
- Track record in the design and construction of sophisticated naval and commercial vessels as well as shiprepair services with high engineering content including ship conversions
- Designs and develops a variety of vessels including landing ship tanks, patrol vessels, feeder container vessels, platform supply vessels, fisheries survey vessels and pure car truck carriers
- 1,396 staff

### Major Developments In 2005

- Launched three stealth frigates, *RSS Steadfast*, *RSS Tenacious* and *RSS Stalwart*, for the Republic of Singapore Navy
- Delivered a landing supply craft to the Ministry of Interior, Kuwait
- VT Halter Marine, in the US, delivered one pure car truck carrier, the first of three fisheries survey vessels and a stevedoring crane barge, and also launched the second of three fisheries survey vessels and the first of two harbour tugs
- Awarded contracts for four feeder container vessels, one fisheries survey vessel, one catamaran lift barge, four articulated tug barge units and the design of fast missile craft

### Revenue in \$m



### Profit before tax in \$m

