

ST Engineering at a Glance

ST ENGINEERING



FACTS

- One of the largest companies listed in Singapore and one of Asia's largest defence and engineering groups, with an order book of \$7.4b and total assets of \$5.5b as at end 2006
- Global footprint in 20 countries and 35 cities, with over 100 subsidiaries, joint ventures and associated companies
- VT Systems, ST Engineering's US headquarters in Virginia, has extensive US operations across the Group's core businesses
- Component stock of the FTSE/ASEAN 40, MSCI Singapore Free Index, S&P Asia Pacific 100 and Straits Times Index
- 98 patents granted to date, with 259 patents filed
- Global workforce of over 17,000 with 4,592 engineering staff

CORE CAPABILITIES

- A global engineering group providing integrated solutions for the aerospace, electronics, land systems and marine industries
- Specialises in dual use technologies, with both military and commercial applications which traverse traditional industry lines
- Provides customised solutions through a network-centric approach that leverages the strengths of the Electronics sector and harnesses innovative technology

MAJOR DEVELOPMENTS IN 2006

- Continued to grow global operations, with strategic acquisitions and investments worth over \$230m
- Showcased latest technologies and solutions at Asian Aerospace 2006
- Expanded into new markets like Panama, Scandinavia and countries in the Middle East
- Launched the third successful Safety @ Work Creative Awards, a community programme to raise safety awareness

REVENUE IN \$m



PROFIT BEFORE TAX IN \$m



AEROSPACE SECTOR



CORE CAPABILITIES

- **Aircraft Maintenance & Modification**
 - Line and base maintenance
 - Technical services and maintenance planning
 - Modifications, conversions and refurbishment
 - Design, development and technology integration
- **Component & Engine Total Support**
 - Engine maintenance, repair and overhaul
 - Aircraft mechanical and avionics component repair
 - Materials and spares support and management

FACTS

- Offers Total Aviation Support in a wide range of services – airframe, engine and component maintenance; engineering design and technical services; and aviation materials and management services
- Ranked by Overhaul & Maintenance 2005 as the world's largest airframe maintenance provider with 6.7m commercial airframe manhours in 2004
- Worldwide network of facilities with diverse global customer base that includes many of the world's leading airlines, airfreight operators and military aircraft operators
- 6,517 staff

MAJOR DEVELOPMENTS IN 2006

- Completed acquisition of SAS Component stake and subsequently merged it with Airline Rotables Ltd, increasing total shareholding to 71.3%
- Signed lease agreement for new facility in Panama
- Secured contracts with Airbus and other new start-up airlines for Total Aviation Support programmes
- Redelivered 2,500th aircraft to long term customer, FedEx Express
- Added capacity to Changi and Seletar facilities in Singapore

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**
 - e-Government communications and infocomm technologies solutions
 - Satellite communications systems
 - Communications, microwave, radar and sensor systems
 - Intelligent traffic and fleet management systems
 - Info-security solutions
 - Electro-optics systems
- **Software Systems Group**
 - e-Government solutions
 - Digital animation and media
 - Mobile realtime and homeland security systems
 - Training and simulation systems

FACTS

- Specialises in rail transportation systems and solutions with projects in China, the Philippines, Singapore, Taiwan and Thailand
- One of the world's leading providers of satellite communications systems and solutions as well as multi-channel multipoint distribution systems
- Provides tracking and management systems for more than 50,000 vehicles in the region
- Provides e-Government systems and solutions for governments internationally
- Filed 50 patents, of which 25 have been granted since 1998
- 3,491 staff

MAJOR DEVELOPMENTS IN 2006

- Acquired 80% of MÅK Technologies – a US specialist in simulation software and toolkits
- Acquired 70% of PM-B – a mission-critical environment specialist based in Singapore
- Expanded operations into new markets in Albania, Qatar, Dubai and new regions in China
- Won contracts to provide rail solutions in Guangzhou and Beijing, China
- Launched exclusive collaboration agreement with SingTel to provide high-speed two-way broadband connectivity to the maritime industry
- Partnered Hewlett-Packard in a consortium shortlisted for Singapore's \$2b e-Government project
- Launched battlefield management system commissioned by the Singapore Armed Forces for its 3rd Generation networked fighting force on the Bionix II platform

REVENUE IN \$m



PROFIT BEFORE TAX IN \$m



LAND SYSTEMS SECTOR



CORE CAPABILITIES

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

FACTS

- Produces over 120 different types of specialty vehicles, including construction and mining equipment, multi-temperature trucks, distribution trailers and bodies
- World's largest manufacturer of commercial class asphalt pavers and beverage trucks
- Offers defence products that are geared for network-centricity and increased connectivity
- One of few manufacturers in the world to offer both 40mm weapon systems and a wide range of supporting ammunition
- 37 patents granted to date, with 56 patents filed
- 5,508 staff

MAJOR DEVELOPMENTS IN 2006

- Added VT LeeBoy, a leading US manufacturer of road construction and maintenance equipment, to its stable of specialty vehicles companies
- Formed Advanced Technology Research Centre, a 50-50 joint venture company with DSO National Laboratories, to undertake research and technology development in advanced materials for both defence and commercial applications
- Secured a three-year agreement from the Texas Government permitting any governmental or non-profit agency in Texas to purchase emergency vehicles from VT SVC without competitive bids
- The Bionix II infantry fighting vehicle entered into service with 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**
 - Extensive water jet expertise
 - Thin gauge steel and aluminium construction for naval vessels
- **Maintenance**
 - Overhaul and maintenance of high performance marine engines
- **Shiprepair**
 - Upgrading and retrofitting
 - Conversion of commercial vessels

FACTS

- Five shipyard 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 high engineering content shiprepair services 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, articulated tug barges, and pure car truck carriers
- 1,412 staff

MAJOR DEVELOPMENTS IN 2006

- Delivered two locally built stealth frigates, *RSS Intrepid* and *RSS Steadfast*, and launched the fifth and final stealth frigate, *RSS Supreme*, for the Republic of Singapore Navy
- US operations secured contracts worth US\$649m to build a fisheries survey vessel, articulated tug barges, a SWATH vessel and a T-AGM(R) vessel
- Singapore operations secured contracts worth \$177m to build two RoRo vessels, two seismic research vessel conversions, a cutter suction dredger modification and a platform supply vessel conversion
- Launched the first two of four 1030 TEU container vessels

REVENUE IN \$m



PROFIT BEFORE TAX IN \$m

