

# 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 \$9.5b and total assets of \$6.0b as at end 2007
- Global footprint in 21 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
- 126 patents granted to date, with 292 patents filed
- Global workforce of 18,254 with 5,102 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 traversing traditional industry lines
- Provides customised solutions through a network-centric and systems approach that leverages the strengths of the Electronics sector
- Spearheads the search for new and emerging technologies

## MAJOR DEVELOPMENTS IN 2007

- Winner of inaugural Singapore Quality Award (SQA) 2007 with Special Commendation – the highest accolade awarded by Singapore Quality Council in recognition of business excellence
- Celebrated 40th Anniversary – commemorating four decades of achievements
- Launched 4th Safety@Work Creative Awards
- Organised inaugural analyst and media familiarisation trips to the Group's US operations
- US operations revenue reached the US billion dollar mark

## REVENUE IN \$m



## PROFIT BEFORE TAX IN \$m





# AEROSPACE SECTOR

## CORE CAPABILITIES

- **Aircraft Maintenance & Modification**
  - Line and base maintenance
  - Technical services and maintenance planning
  - Modification, 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

- Ranked in an Overhaul & Maintenance 2007 survey as the world's largest third party maintenance provider for the third consecutive time, with 8.1m commercial airframe manhours in 2006
- Leverages a wide range of services – airframe, engine and component maintenance; engineering design and technical services; and aviation materials and management services – to offer Total Aviation Support
- Worldwide network of facilities with diverse global customer base that includes many of the world's leading airlines, airfreight operators and military aircraft operators
- 70 patents filed of which 25 have been granted
- 6,993 staff

## MAJOR DEVELOPMENTS IN 2007

- Award by Boeing to perform freighter conversions under its 767-300 Boeing Converted Freighter programme
- Won contract with FedEx Express for the freighter conversion of its 87 Boeing 757 aircraft
- Won two contracts (\$393m) from the RSAF for the modernisation of its fleet of ten C-130 transport aircraft and a TAS™ programme for its fleet of 16 A-4SU/TA-4SU Skyhawk aircraft
- Secured a 15-year MBH™ contract (\$248m) with Xiamen Airlines for 22 of its CFM56-7B engines
- Continued gaining component support business through contracts with AirAsia, Juneyao Airlines and Martinair
- Expanded its global capacity with new hangars in Singapore and started new hangar construction in Shanghai
- Signed a joint venture agreement with Xiamen Aviation Industry Co to set up an engine MRO facility, ST Aerospace Technologies (Xiamen) Co (STATCO)
- Commenced operations at Panama Aerospace Engineering (PAE)
- Received Design Organisation Approval by EASA which expands ST Aerospace's engineering capability in aircraft modifications

## 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 & Information Communications Technologies (ICT) solutions
  - Satellite communication 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 and managed services
  - Interactive digital media
  - Mobile realtime and homeland security systems
  - Training and simulation systems and education solutions

## FACTS

- Singapore's largest ICT solutions provider and systems integrator
- Only provider of 3-in-1 rail solutions for command, control and communications, automatic fare collection and platform screen doors, with projects in China, the Philippines, Singapore, Taiwan, Thailand and Turkey
- One of the world's leading providers of multi-channel multipoint distribution systems and satellite communications systems and solutions
- 53 patents filed of which 28 have been granted
- 4,154 staff

## MAJOR DEVELOPMENTS IN 2007

- First Singapore ICT system company to cross the billion dollar mark in revenues
- Secured \$104.5m rail contracts for Taiwan's Taoyuan International Airport, Songshan and Xinyi lines and a \$123m Marmaray Commuter Rail project in Istanbul, Turkey
- Strengthened presence in the Middle East with contracts in Saudi Arabia to provide a \$60m integrated traffic management solution and an integrated security system for the Dubai Festival City in UAE
- Renamed subsidiaries to strengthen market branding – ST Electronics (Digital Media), ST Electronics (Software Services) and ST Electronics (Info-Security)
- iDirect opened a Dubai office and made headway in Asia with contracts in China, Indonesia and Pakistan. Set up iDirect Government Technologies, Inc. to focus on government markets
- Entered into an agreement to acquire about 94% of Telematics Wireless Ltd, a key player in the high growth Machine-to-Machine Industry

## REVENUE IN \$m



## PROFIT BEFORE TAX IN \$m





# LAND SYSTEMS SECTOR

## CORE CAPABILITIES

- **Land Systems & Solutions**
  - Design, development and production of integrated weapon and munitions systems
  - Design, development, production and upgrade of wheeled and tracked mobility systems
  - Integration of third party solutions for military and homeland security applications
- **Specialty Vehicles & Services**
  - Design, development and production of vehicles and equipment for use in construction, goods distribution and urban services
- **Total Support & Services**
  - Maintenance, repair and overhaul of military platforms, weapons systems and ground support equipment
  - Inspection and accident repair of private and commercial vehicles
  - Through-life support of automotive assets including preservation and spares management
  - Industrial test services

## FACTS

- Leading 40mm payload solutions provider in the world
- Market leader in commercial class asphalt pavers in North America
- International clientele from more than 30 countries
- 34 patents filed of which 24 have been granted
- 5,191 staff

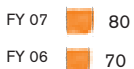
## MAJOR DEVELOPMENTS IN 2007

- Secured \$78m weapon maintenance contract from the SAF
- Secured hybrid electric tow tractor contract of over 70 units with Singapore Airport Terminal Services
- Increased shareholding in STAR Automotive Center Guangzhou Co., Ltd. to 100% in line with business growth in the expanding automotive repair market in China
- Increased investment in Guizhou Jonyang Kinetics Co., Ltd. to grow the specialty vehicle business in China
- Received approval from the US Government Supply Administration for VT SVC and VT LeeBoy to list products for direct sales to US government entities
- Launched mobile command vehicle for the law enforcement market in North America
- Unveiled articulated dump truck and new excavators including a hybrid version to complement its family of offerings in China
- Launched Commercial Articulated Vehicle, a track-based platform designed for disaster relief operations

## 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 and CAE software
  - 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, stealth frigates, patrol vessels, feeder container vessels, RoRo vessels, platform supply vessels, LPG tankers, high speed passenger ferries, fisheries survey vessels, articulated tug barges and pure car truck carriers
- 31 patents filed of which 16 have been granted
- 1,466 staff

## MAJOR DEVELOPMENTS IN 2007

- Singapore operations secured contracts worth about \$568m to provide ship and submarine system and maintenance services to the RSN, and to build a Ropax ferry for LDA
- US operations secured contracts worth US\$319m (about \$480.6m) including a contract modification for the Egyptian Fast Missile Craft project as well as the building of a platform supply vessel and three 330,000-barrel tank barges
- Delivered third and fourth locally-built stealth frigates, *RSS Tenacious* and *RSN Stalwart*, to the RSN
- Delivered the first and second of four 1030 TEU feeder container vessels and launched the last two
- Completed conversions of fishing trawler and platform supply vessels to seismic research vessels

## REVENUE IN \$m



## PROFIT BEFORE TAX IN \$m

