



TM

Helping banks reach out

Pioneering Rural ATMs

The only ATMs that can also work under harsh conditions



Available with comprehensive software suite to enhance the ATM experience

Low Capex

Low Power

Rugged and Reliable

Solar Powered

Innovation

Vortex Automated Teller Machines' key differentiators- low cost and low power consumption - are the result of innovative thinking by its engineers. The 5 patents filed are a testimony to the pioneering effort at Vortex to give the very best of technology at affordable prices to its customers. Key innovations in Gramateller™ design are:

- **Gravity Assisted Friction Pick:** Improved technology to pick even soiled (teller grade) notes
- **Beltless Design:** Less power, lesser jams, simpler servicing and more reliable
- **Built-in UPS:** Save space, save on capex
- **Linux based OS:** Safer, no frequent patches, better hardware utilization
- **Industrial grade motherboards:** More rugged

Low power consumption ensures that the heat generated inside our ATM is negligible. Also, it uses hardened components that can operate under ambient temperatures of up to 50° Celsius thus ensuring that Vortex ATMs operate without any air-conditioners - a feature that is not offered by any other ATM Manufacturer.

The very low power consumption of Vortex ATMs also makes it viable to cost-effectively operate on solar power.

The patent pending 'Gravity Assisted Friction Pick' technology ensures the highest reliability in picking notes. Added to this, the 'Sheet Separation Apparatus' technology enables it to dispense even soiled (teller-grade) notes. Many other patented design techniques have been used to offer a simple, rugged mechanism. With these, mechanical reliability is increased many fold, making these machines one of the most rugged and reliable ATMs available today.



Technology

With the mission of helping banks reach out profitably to unbanked and under-banked regions, and years of R&D ably supported by IIT Madras, Vortex has designed ATMs which are highly reliable, rugged, easy-to-use and eco-friendly (consumes 90% lesser power and hence can also be operated using solar power). Vortex ATMs are currently serving even the remotest parts of rural India – using technology as an enabler to improve quality of life.



World's Lowest Power Consuming ATMs

About Vortex Engineering

Majority of people in developing countries live in semi-urban and rural areas, where banking access is still limited. Though the concept of personal banking has undergone major transformation with the introduction of Core Banking and Automated Teller Machines (ATMs), the impact in non-urban locations has been limited.

Vortex Engineering Pvt Ltd, a company headquartered at Chennai aims to address this gap by providing ATMs and associated technologies for the rural/semi-urban areas. The products and solutions are specially designed to suit conditions unique to this segment – erratic power supply, tough working environment, lesser literacy levels of end users, etc. Vortex is the pioneer and leading provider of innovative low power consuming ATMs specially designed for this segment.

Built on years of R&D in collaboration with IIT Madras, with a focus on rural needs, Vortex is now changing the face of banking with its Gramateller™ ATMs.

Vortex is led by entrepreneurs and IIT alumni, V Vijay Babu (CEO) and L Kannan (Founder & CTO). Vortex benefits from the presence of luminaries like Ray Stata (Founder & Chairman, Analog Devices Inc), Jean-Philippe De Schrevel (Chairman, Oasis Fund), Arun Diaz

(Management Consultant; formerly Head, Programme and Change Management, Standard Chartered Bank), et al on its board.

Vortex's innovative ATM portfolio comprises Gramateller™ Indi ATM, Gramateller™ Duo ATM and solar power options for both these models. Additionally the company provides related software solutions to help banks roll out end-to-end ATM services. The company has filed 5 patents in the domain of ATM technology and design.

Vortex has successfully deployed ATMs with leading banks across most states of India, especially in small towns and villages (hitherto seen as unviable for ATMs) as the first ATM in that locality. Recently Vortex has started making inroads into other Asian & African markets.

The company has been selected as one among the 10 start-ups that will change your life by TIME magazine, is one among 31 visionary companies selected as Technology Pioneers 2011 World Economic Forum, and was a finalist of the Wall Street Journal Asia Innovation Awards 2010.

High RoI



- Lower capital investment
- Very low power consumption – save up to 90%
- Very compact, uses less space
- Electronic journal – saves paper
- Very low operating expenditure

Rugged and Reliable



- Designed for operating in the most rugged environs
- Reliable technology with fewer chances for cash jams
- Very easy to use, even for users unfamiliar with tech devices – provides biometric authentication
- Multi-lingual display and voice guidance support

Eco-friendly



- Does not need air-conditioning - can operate from 0°C to 50°C
- Solar power option for maximum availability

Certified with all major ATM switches



Finalist
THE WALL STREET JOURNAL.
Asian Innovation
Award 2010

Winner
इरीजान 2009
MICROFINANCE
AWARDS AND FORUM
Technology
Innovation Award



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