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We offer nothing but good **AC Drives**

**Professional manufacturer on AC Drive ---The Toptek**  
Since 1978

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# Brief Introduction

## Our steps

- 1978 Top Electric & Machinery Co., Ltd. established in Taipei Taiwan
- 1981 Topvert VF-3000 series, PAM V/FControl AC Drive launch
- 1982 Topvert VF-100 series, PAM V/FControl AC Drive launch
- 1983 Topvert 5000P2 series, PAM V/FControl AC Drive launch
- 1984 Topvert 6000P2 series, PAM V/FControl AC Drive launch
- 1986 Topvert 7000G3 series, PWM V/FControl AC Drive launch
- 1988 Topvert 7000G6 series, PWM V/FControl AC Drive launch
- 1990 Topvert 7100G3 series, PWM V/FControl AC Drive launch
- 1993 Topdrive 8000 series, PWM V/FControl AC Drive launch
- 1996 Topvert 7300 series, PWM V/FControl AC Drive launch
- 2001 Reformed as Toptek Electronics Corporation
- 2002 Moved to Chung-Li Industrial District, Taoyuan County
- 2003 Topvert G1 series, PWM Sensorless vector control AC Drive launch
- 2004 Established subsidiary company "GOOD ART ELECTRONIC Co., Ltd.," in Samoa
- 2004 Established Toptek Electronics (Fujian) Co., Ltd. in China.
- 2004 Topvert P1 series, PWM Sensorless vector control AC Drive launch
- 2004 Topvert H1 series, PWM Sensorless vector control AC Drive launch
- 2005 Topvert E1 series, PWM Sensorless vector control AC Drive launch
- 2006 Topvert S1 series, PWM Sensorless vector control AC Drive launch
- 2007 Established Sales Office in Quanzhou, Fujian Province, China



## **Management Principle**

**Excellent environment for excellent employees**

**Excellent employees for excellent team**

**Excellent team for excellent goal**

**We truly believe:**

**By Quality, Service and Reliability**

**Customers, employees and shareholders all become the winners**

## **Mission Statement**

**Become the company most known**

**For changing**

**the worldwide not the best image of Taiwanese products.**

## **Quality Statement**

**We are not satisfied at manufacture good products**

**We are not satisfied at design good products**

**We know the road to pursue perfect quality is endless**

**---But would not be bumpy.**

**We ensure this will be our lifestyle**

**---will be circulating in our blood naturally**

**---will be passes on forever.**



## Common features of Topvert Family

- 1 Sensorless vector control, vector control with PG feedback, and V/F control.
- 2 150% of rated torque at 1 Hz output, 200% overload capability for 2 seconds.
- 3 Dynamic braking torque up to 125% of rated torque
- 4 Zero speed braking, torque control, low acoustic noise running.
- 5 Easy operation with the Encoder style dial---Setting resolution 0.01Hz
- 6 PID feedback control built-in
- 7 Multi-Function Digital input terminals (Sink/Source. NPN/PNP)
- 8 Local/Remote control switching from operator
- 9 Removable fan cassette---Easy replacement
- 10 Single cover for all wiring.
- 11 Low/high voltage area fully isolated -----Safety.
- 12 Multiple records such like accumulated running time, Drive status, Trip reason...etc.
- 13 Removable digital operator, extension distance up to 150 meters.
- 14 Auto tuning
- 15 Good to drive induction servo motor
- 16 Output frequency up to 600 Hz (H1 series up to 6000 Hz)
- 17 Automatic energy-saving run
- 18 Automatic voltage regulation (AVR)
- 19 Serial communication port (Rs-485/Modbus)
- 20 Automatic torque boost
- 21 Automatic slip compensation
- 22 Auto-optimum accel./decel. time
- 23 Multi-Function Analog input terminals
- 24 Multi-Function Analog output terminals
- 25 Multi-Function Digital output terminals
- 26 Multi-Function Relay output terminals
- 27 Carrier frequency up to 18 kHz
- 28 Coast or ramp to stop
- 29 DC injection brake
- 30 Password protection
- 31 PG feedback (optional)
- 32 Adjustable V/F curve
- 33 Speed search (Pick up spinning load)
- 34 16-step PLC Run & 16-step MSS Run



## **Topvert S1 series** **High performance general purpose mini drive**

### **Features:**

1. I/O ports flexible
2. Very compact, Din rail mount available
3. Low acoustic noise running. (Carrier frequency up to 18 kHz)

### **Range:**

- 110V, 1-phase: 0.2 – 0.75kW
- 220V, 1-phase: 0.4 – 2.2kW
- 230V, 3-phase: 0.4 – 3.7kW
- 460V, 3-phase: 0.4 – 3.7kW

### **Applications:**

Industrial washing machine, Food mixer, Textile machinery, conveyor,  
Food & drink packing machinery...etc.



## **Topvert E1 series** **High performance general purpose compact drive**

### **Features:**

1. Low acoustic noise running. (Carrier frequency up to 18 kHz)
2. Dynamic Brake built-in
3. Heat sink over heat pre-warning.

### **Range:**

- 110V, 1-phase: 0.2 – 1.5kW
- 220V, 1-phase: 0.2 – 2.2kW
- 230V, 3-phase: 0.4 – 7.5kW
- 460V, 3-phase: 0.4 – 7.5kW

### **Applications:**

Conveyer, Mixer, Textile machine, Dyeing machine,  
Lithographic printing machine, Metal working machine ...etc.



## Topvert G1 series High performance general purpose multi-function drive

### Features:

1. Powerful I/O port. (6 DI/4 DO, 3 AI/2 AO)
2. Closed loop speed control, control range up to 1000:1, Accuracy  $\pm 0.1\%$
3. Fully isolated wind path---Dust pollution free

### Range:

- 220V, 1-phase: 0.4 – 2.2kW  
230V, 3-phase: 0.4 – 75kW  
460V, 3-phase: 0.75 – 315kW

### Applications:

Corrugated paper machine, Crane, Machine tool,  
Injection molding machine, Draw bench, Textile machine, Stone cutting machine...etc.



## Topvert H1 series High performance high speed drive

### Features:

1. Output frequency up to 6000 Hz
2. High precision ratio control
3. Very fast response

### Range:

- 220V, 1-phase: 0.4 – 2.2kW  
230V, 3-phase: 0.4 – 75kW  
460V, 3-phase: 0.75 – 75kW

### Applications:

Rotor spinner, Engraving machine, PCB drill, Intaglio printing machine,  
High speed winder for cigarette...etc



## Topvert P1 series High performance variable torque drive for Fan & Pump

### ■ Features:

1. Special V/F curve for Fan & Pump/ Variable torque control
2. Speed search/Skip frequency/Auto restart
3. Multi-pump control. (Up to 4 pumps by one drive)

### ■ Range:

230V, 3-phase: 0.75 – 90kW  
460V, 3-phase: 1.5 – 400kW

### ■ Applications:

Industrial fan & pump, Heating Ventilating and Air Conditioning (HVAC),  
Constant pressure Pump, Blower fan, Water and wastewater treatment system...etc.



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### Application Examples



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