



*We make a good communication Between man and machine.*



**Dynamic Automation Technologies**

*solving any engineering puzzle*

*All Kinds of Industrial Automation Solution*

# About Us

## Leading Industrial Automation Company in Bangladesh

Dynamic Automation Technologies (DAT) aims to strengthen its position as a leading engineering company in the Automation Division of Bangladesh.

Being an engineering driven company we wish for our customers to choose us inspired by our drive for innovation, engineering efficiency, high quality components, safety and social responsibility which enrich our mode of doing business.

DAT will continuously uphold its reputation in long-term contracts with the clients focused on excellent service and cost effectiveness.

We believe that we can deliver service to this limited market of engineering better than larger firms. We have better service packages at more reasonable cost than existing competitors of equal size.

## Mission

It is the mission of DAT to provide innovative approaches to Industrial Automation services and to build effective long-term relations with our clients with excellent services delivered in a timely and cost-effective manner.

## Vision

Our ambition is to achieve sustainable progress in all areas in which we operate and to provide innovative solutions by working together with our partners with whom we have built long lasting relationships based on mutual trust and respect for the people and the environment.

## Keys to Success

DAT's keys to long-term survival and profitability are as follows:  
Create long-term contracts with the clients demanding constant monitoring or on call services.  
Keeping close contact with clients and establishing a well-functioning long-term relationship with them to generate repeat business and  
Obtain a top-notch reputation.  
Establish a comprehensive service experience for our clients that include consultation, field and laboratory work.

Thank You

# Our Service

## Our Automation service are as follows

- Trouble Shooting & Up-gradation of Industrial Machinery
- Process Automation
- Textile & Spinning Mills Machinery
- Pharmaceuticals machinery
- Plastic Industries
- Food Product Machinery
- Cement mill
- Water Pump & distribution systems
- CNG Station Modification
- Packaging Machines and Printing

## Programmable logic controller service

- PLC programming & installation
- HMI design & programming
- PLC Upgrade Services
- Specializing in PLC and PC-based Control Systems
- The latest high tech diagnostic equipment & software.
- Specializing in SCADA and HMI Operator Stations
- PLC removal and re-installation services.
- Expert diagnosis and repair of older out of production PLC & Inverter models
- Typical 24 hour servicing time.

## Sales and Marketing

- GTAKE
- LS Automation product
- LS Low and Medium voltage products
- Panasonic Servo Motor & Drive
- Mitsubishi Drive & P.L.C
- Autonics Sensor & Controller
- Siemens Automation Product
- ABB Drives, Instrument & motors

## GK100



Economical AC Drive

Input & Output delay  
Flexible parameter display  
Timing control, fixed length control, etc  
Simple PLC, 16-steps speed control  
S curve acceleration / deceleration  
Multi-functional programmable control pannel  
Robust design, failure ratio<1%  
</> V/Hz



## GK500

1AC 200V 0.4 ~ 2.2kW 3AC 200V 0.4 ~ 2.2kW 3AC 400V 0.75 ~ 3.7kW



Mini AC Drive

Small in Size, Powerful in Performance  
Mounting space saving  
Hot pluggable display with potentiometer  
Optimized design on heat dissipation: Derating is not required @ 50 °C (ambient temperature)  
Promoted V/Hz control technique: 180% @ 0.5Hz  
8-step speed is supported, two of which accept various frequency settings  
Stall protections

</> V/Hz



## GK600

1AC 200V 0.4 ~ 2.2kW 3AC 200V 0.4 ~ 110kW 3AC 400V / 660V 0.75 / 11~ 1200kW



General Purpose AC Drive

Multifunctional and versatile	Cycle-By-Cycle Current Limit
Big start torque: 180% @ 0.25Hz	Short Dead Time between FWD and REV
Strong overload capability: 200% for 0.5s	Preminent Field-weakening Control
High efficiency: >98%	V/Hz separated control
Precise autotune	Intelligent heat dissipation
Flying start supported	Hot pluggable and detachable control pannel
Quick dynamic response: <10ms	Abundant hot-plugged options

</> V/Hz SVC1 SVC2



CAN

CANopen



## GK800



High Performance  
AC Drive

One for All: well control asynchronous motors and permanent magnet synchronous motors

Supreme start torque: 200% @ 0Hz

Torque control programmable: accuracy :  $\pm 5\%$ ; response time: <5ms

Four kinds of position control settable

Flexible electronic gear

Strong overload capability: 200% for 0.5s

High efficiency: >98%

Precise autotune

Flying start supported

Intelligent heat dissipation

Hot pluggable and detachable control pannel

Abundant hot-plugged options

☀ ABZ / UVW / Resolver / Sincos encoders

V/Hz SVC1 SVC2 VC

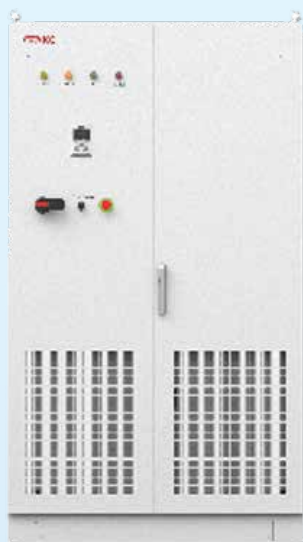


CAN

CANopen



## GK1000



AFE AC Drive

3AC 400V 30~ 630kW    3AC 660V 30~ 630kW

Remarkable in energy saving, in addition to low harmonics, offer remarkable energy saving in applications with frequent braking, such as centrifuges, sugar cane mills, test benches and winders.

Module design: AFE+Drive

Bus voltage auto adapted

Marvelous dynamic response

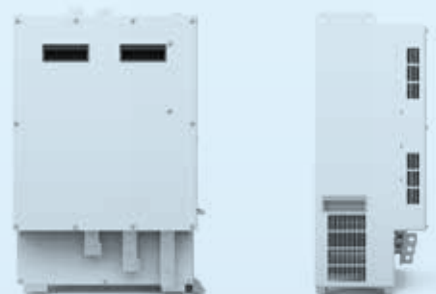
Four control modes

Purified output : THD<2.5%

Speed adjustable range: 1:1000

Speed accuracy:  $\pm 0.1\%$

Speed ripple:  $\pm 0.1\%$



☀ ABZ / UVW / Resolver / Sincos encoders

SVC1 SVC2 VC



CAN

CANopen



## Programmable Logic Controller



Programmable logic controller(PLC) is a general-purpose control device that automatically controls machinery, facilities and assembly lines by user defined programs. It also has a variety of communication functions for sequence, motion and process control



## HMI

Human machine interfaces(HMIs) are device and software for monitoring and operating the automation facilities, using graphics designed by users. XGT Panels developed with the Windows CE Platform provide user-oriented convenience, clear and realistic expressions, speedy data transmission and treatment, and software familiar to users. LS Industrial Systems has applied an easy user interface, cutting-edge graphic technology, and other innovative technology that includes fast, stable network functions to XGT InfoU, an HMI-based software program.







## Human-Machine Interfaces (HMI) GOT

The GOT offers art of design and manufacturing to the world. A wide variety of lineup meets the needs of Production sites. The GOT boasts advanced functionality, acts as a seamless gateway to other industrial automation devices, all while increasing productivity and efficiency.



## Programmable Logic Controller

The MELSEC-F series PLC incorporates power supply, CPU, and I/Os into a single compact unit. Meets the Needs of a variety of user applications with options for I/O, analog, positioning, and open network expansion.



## Servo Drive and Motor

Mitsubishi Servo System - advanced and flexible. Mitsubishi servo has a variety kind of motors (Rotary, linear and direct drive motors) in order to achieve the best machine performance.



## SIMATIC Controllers

Siemens offers the right controller for a wide range of automation requirements. The SIMATIC range of controllers comprises of Basic, Advanced, Distributed, Software and Motion Controllers offering impressive scalability and integration of their functions. The engineering in the Totally Integrated Automation Portal (TIA Portal) enables optimum automation solutions to be found for every application. Failsafe CPUs for standard and Safety applications Failsafe CPUs are designed to meet the requirements for both standard and failsafe applications in stand-alone machines and plant wide automation. This basic automation controller leverages Integrated Safety applications with local Failsafe IO as well as connectivity to safety rated field devices via PROFIsafe over PROFINET. STEP 7 Safety Basic permits users to create their functional safety programs in the same engineering environment as their standard programs. This allows users to develop applications much faster because of the interoperability of the software components in the TIA Portal architecture.

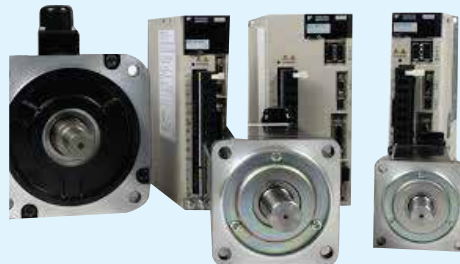




### MINAS A6 Family Block

More compact, more faster and more easy-to-use Servomotors that meet the demands of the present age.

- A6SE Series : Incremental-only, Pulse line input type
- A6SG Series : Pulse line input, Modbus (RS485/RS232) type
- A6SF Series : Analog, Pulse line input, Modbus (RS485/RS232) type
- A6NE Series : Ultra high-speed Network type (RTEX) without the safety function
- A6NF Series : Ultra high-speed Network type (RTEX) with the safety function
- A6BF Series : EtherCAT type with the safety function (Special Order Products)



### MINAS A5 Family Block

Servo motor that brings out potential of the machine.

- A5II Series : Two-degree-of-freedom control system All-in-one type
- A5IIE Series : Two-degree-of-freedom control system Position control type
- A5 Series : All-in-one type
- A5E Series : Position control type
- A5IIN Series : Ultra high-speed Network type (RTEX)



Human Machine Interfaces, or HMIs, include any device or software that allows you to interact with a machine. Fuji Electric Solutions at the Touch of a Finger. Fuji Electric's MONITOUCH HMI operator panels provide exceptional features, including remote monitoring capabilities and connectivity to popular PLCs including over 20 Ethernet drivers and 8 field bus options. We offer a wide range of displays to suit everything from basic projects to more advanced applications.





# Autonics

## Sensors & Controllers

Autonics manufactures and distributes global standard products to over 100 countries worldwide, Through our 13 international offices and countless distributors across the globe. Our management is Heavily invested in global marketing and we will continue our efforts to bring enhanced productivity for Customers at every corner of the world.

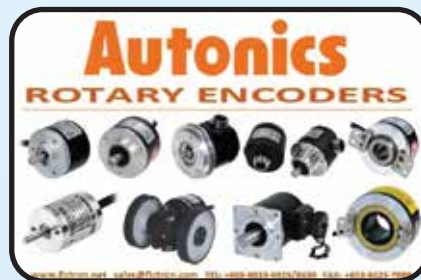


### Sensors

- Photoelectric Sensors
- Fiber Optic Sensors
- Door / Door Side Sensors
- Area Sensors
- Proximity Sensors
- Pressure Sensors
- Rotary Encoders

### Controllers

- Temperature Controllers
- Temp./Humidity Transducers
- Power Controllers
- Counters
- Timers
- Panel Meters
- Pulse (Rate) Meters
- Display Units
- Switching Power Supplies
- Sensor Controllers
- Touch Screen/Logic Panels
- Field Network Devices





# Dynamic Automation Technologies

*solving any engineering puzzle*

**Office:** House # 18, Road # 16, Sector # 14, Uttara, Dhaka-1230.  
Tel: 02-48961593, Hotline: +8801714-482145  
E-mail: [info@datlbd.com](mailto:info@datlbd.com), Web: [www.datlbd.com](http://www.datlbd.com)

