alphatek
Engineering Limited
Industrial Automation & Engineering Co.
Technology For Today . . . .





PRODUCT GUIDE



alphatek Engineering Limited

COMPANY PROFILE

About Us:

alphatek Engineering Limited is an entity formed to ensure trustworthy and efficient solutions service for the Electrical, Power and Industrial sector of Bangladesh. The Business is focused to give empowerment for different industries and local business by sharing knowledge, experience and competitive cost effective solution. It has a strong team and lead of vast experienced engineers who have already proven their footprint as excellence for the industries.

The company starts its journey to serve the nation and people from 2005 as Industrial Automation & Engineering Co. and been appearance as Limited Company in 2019. Today's Alphatek Engineering Limited has stay at this position by walking on the long path of growing. The company stats its journey as Electrical Engineering Service Company and do lots of automation and integration projects in the initial stage. According to customer and industry requirements, it does ensure supplied of quality products with reliability and highest after sales service. Then, the company introduced the most effective, efficient & customer oriented Feed Mills Machineries import facilities from Taiwan. In very recent time, it's introduced Power & Panel Section to ensure supply of quality products & service by establishing own Factory & Workshop.

alphatek Engineering Ltd.'s operations are organized into four divisions –

- Industrial Machine Automation (Programming with PLC, HMI, SCADA)
- Do Plant Erection on turnkey basic
- Selling of Automation and Low & Medium Voltage Products (PLC, HMI, VFD, Sensors & Controllers, MCB, MCCB, MC, ACB)
- Selling of Sub-Station & Panel Boards (LT, HT, MCC, MDB, HDB Panel; PFI, Switchgear)

Our Business Motto is – "Learn, Earn and Work for Nation".

Our Mission

Alphatek Engineering Limited is founded on and committed to provide complete industrial business solution to ensure concomitant prosperity by providing authentic & quick responsive service and supply of quality products.

Our Vission

To be the ace champion in the industrial solution sector of Bangladesh by introducing trustworthy and international quality standard service and product according to latest technology.

Our Core Values

- Innovative
- Cost Effective Approach
- Belief in Reliable Service
- Professionalism and Ethics
- Desire for Excellence
- Care for Clients

alphatek Engineering Limited

KEY MEMBERS



Engr. Md. Sahi Alamin Chowdhury
B.Sc. in Elect. Engg. (IUT), MIEB
Managing Director
20 Years of Experience in Automation Sector of Bangladesh
Hi-Tech Business Entrepreneur (Industrial Automation & Engineering Co)
Expert in Feed Mill Electrical, Automation & Feed Mill Engineering
Expert in Industrial Machine Automation & Product Purchase



Mohammad Aslam Chowdhury
Sales Director
(Key Sales Management Person)
Around 10 Years of Experience in Automation
Products Sales for Different Industries.



Engr. Md. Hasibul Islam
Technical Director
(Key Technical Person)
Around 15 Years of Experience in Automation
Solution for Different Industries.

Why Choose Us:

It's the best choice to select Alphatek Engineering Limited for your support because –

- ✦ We provide and ensure sure solution for any kind of problem related to our company activities
- ✦ We have a large team to handle multiple problems/ service calls at a time
- ✦ We are top-most Taiwan branded product distributor for industries in Bangladesh
- ✦ Our valuable products and services are standard, reliable, energy-efficient, and popular
- ✦ We serve our clients with affordable technological solutions
- ✦ Our positive attitude to help or assist the people like- customer and co-worker and so on

Alphatek Engineering Limited always moves ahead to satisfy its customers with their desired solutions. Just make a call, email, or visit us to grab the outstanding products and services from us.

alphatek Engineering Limited

Our footmark in **Automation Solution**

Feed Mills & Agro Industry

- Feed Mills Silo Automation
- Bagging Machine Automation
- Conveyer System Automation
- Counting System Automation
- Woven Bag Auto Cutting Machine Automation
- Complete Feed Mills Automation by SCADA
- Complete Feed Mills Electrical Erection
- Computerize Auto Dosing System Automation
- Computerize Oil Dosing System Automation

Paper Industry

- Complete Paper Mill Automation
- Automatic Paper Bag Cutting Machine Automation
- Unwinder Paper Converting Machine Automation
- Unwinder Paper Converting Machine Automation
- Tissue Converting Machine Automation
- Tissue Roll Machine Automation
- Carbon Less Paper Machine Automation
- A4 Cutter Machine Automation
- Winder Machine Automation

Textile Industry

- Sliding Machine Automation
- Nano-Dyeing Batcher Automation
- Yarn Dyeing Machine Automation
- Knit Dyeing Machine Automation
- Compactor Machine Automation
- Multi-Mixer Machine Automation
- Circular Knitting Machine Automation
- Denim Yarn Dyeing Machine Automation
- Width Control System for Stenter Machine
- 16th Color Printing Machine Automation
- 16th STEP Spinning Programming Software.
- Factory Lift Automation
- ETP Automation
- Sizing Machine Automation
- Carding Machine Automation
- Stenter Machine Automation
- Scuziar Machine Automation
- Ring Machine Automation
- Raising Machine Automation
- Dosatex Machine Automation
- Comber Machine Automation

Pharmaceuticals Industry

- Auto Clave Machine Automation
- Hot Air Stylization Machine Automation
- Auto Coating Machine Automation
- ORS Machine Automation
- Blister Machine Automation
- Tablet Press Machine Automation
- Bottle Wash Machine Automation
- Filling Machine Automation
- Chiller Automation
- Auto water Pressure Machine Automation

Others Industry

- Freeze Compressor Machine Automaton for Walton
- Line Integration Automation for Shop Line of Unilever
- Flat Bar Printing Machine Automation
- Servo Based Auto Packing Machine Automation
- Automatic Cement Bag Packing Machine Automation
- Automatic Bottle Leveling Machine Automation
- Glycerin Dosing System Automation
- Cable Winding Machine Automation

Our Experience on Industries


Feed & Agro

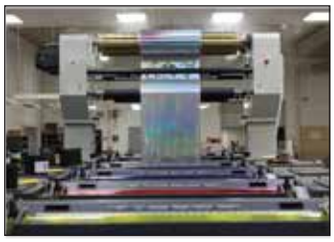

Pharmaceuticals


Paper & Board



Textiles


Wire & Cable


Printing & Packaging


Cement


Food & Beverage


Consumer

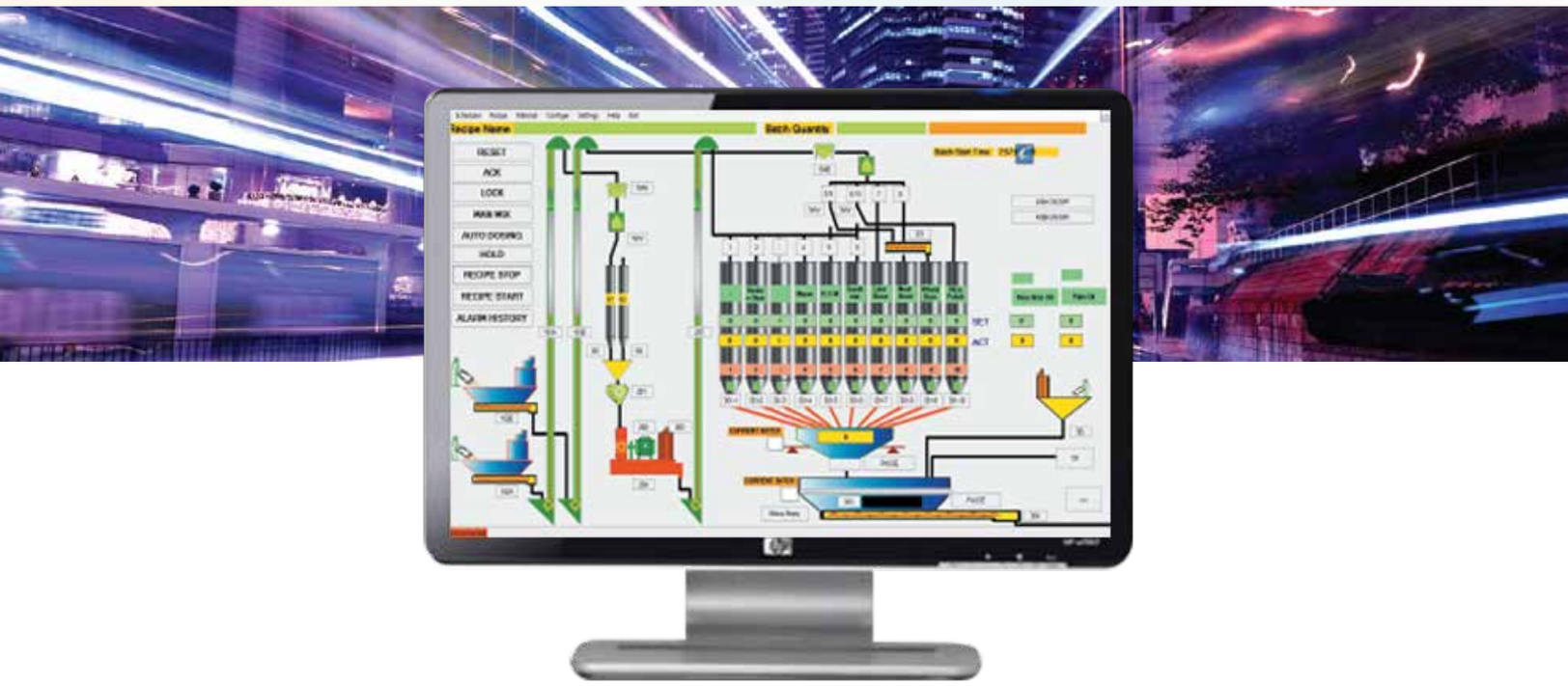
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alphatek Engineering Limited

SCADA Soft Completly Develop by us.

Headquarters
www.automationbd.com

Our own Developed Complete SCADA Soft System



SCADA SOLUTION

- ✦ Requirement Wise Solution
- ✦ Customize Data Monitoring System
- ✦ Various Data Analysis
- ✦ Data Storing & Reporting
- ✦ Printing Facility
- ✦ Remote Access & Diagnosis

Authorized Distributor:

Shihlin Electric

FATEK®

FineTek

FOTEK

mavin®

SCADA Soft

雲峰 Yunfeng Incubation Technology

BETTER BEI DE DEVELOPMENT CO.,LTD (Taiwan)

JACOBS GLOBAL Leading the way to the future USA

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Shihlin Electric
Headquarters
http://www.en.seec.com.tw

OHSAS 18001 ISO 14001 ISO 9001

POWER
TO THE WORLD



MCCB
Molded Case Circuit Breaker

MC
Magnetic Contactor





MCB
Miniature Circuit Breaker





ACB
Air Circuit Breaker



Thermal Overload Relay

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http://www.en.seec.com.tw

SS2 Series Economy Vector Control AC Motor Drive



Product Range

Model		KW (HP)	0.4 (0.5)	0.75 (1)	1.5 (2)	2.2 (3)	3.7 (5)
SS2	021	1-phase 220V					
	023	3-phase 220V					
	043	3-phase 440V					

Main Features

* Built-in shuttle knop to adjust output frequency and set parameters easily
* Built-in RS-485 communication interface
* Support MODBUS and Shihlin communication protocol
* Built-in proportion linkage control function to support multi inverters connection
* Maximum 650Hz frequency output
* Support DIN rail mount
* The resolution of frequency setting: digital 0.01Hz ; analog 1/1000
* The accuracy of output frequency: 0.01%
* Multi-function input/output terminals
* Support 2 analog setting types: 0-10V and 4-20mA

SC3 Series Compact Vector Control AC Motor Drive



Power Range

Model		KW (HP)	0.2 (0.25)	0.4 (0.5)	0.75 (1)	1.5 (2)	2.2 (3)	3.7 (5)	5.5 (7.5)
SC3	021	1-phase 220V							
	023	3-phase 220V							
	043	3-phase 440V							

Main Features

* Compact design for space saving and DIN rail mounting
* Torque improvement in low-speed
* Low frequency noise reduction
* Built-in PID feedback control
* Built-in RFI switch for IT mains
* Advanced design for shock-resistant and vibration

SE2 Series High Performance Vector Control AC Motor Drive



Product Range

Model		KW (HP)	5.5 (7.5)	7.5 (10)	11 (15)
SE2	021	1-Phase 220V			
	023	3-Phase 220V			
	043	3-Phase 440V			

High starting torque, 150%/1Hz and 200%/3Hz.
With auto-tuning function.
Output frequency from 0.2Hz to 1000Hz.
Speed accuracy:less than 1% with 0-100% load variation.
Excellent performance with load capacity of 200%/1s.
Built-in RS-485 communication interface.
Support MODBUS and Shihlin communication protocol.
Built-in brake transistor.
A build in EMC input filter is available.
Energy saving function realizes power-saving control.

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Shihlin Electric

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SE3 Series High Performance Vector Control AC Motor Drive



Product Range

Model		KW (HP)	0.75 (1)	1.5 (2)	2.2 (3)	3.7 (5)	5.5 (7.5)	7.5 (10)	11 (15)	15 (20)	18.5 (25)	22 (30)
SE3	021	1-Phase 220V										
	023	3-Phase 220V										
	043	3-Phase 440V										

- High performance at compact size
- High output frequency: 0~1500 Hz
- Support induction motor (IM) and synchronous
- motor (IPM&SPM) control
- Control mode: Torque/Position/Speed
- Built-in PLC function
- Isolated air channel design, prevent dust from external environment
- Support multiple high speed communication protocols: Modbus/ Profibus/ DeviceNet/ CanOpen/ EtherCAT

SF-G Series Dual-load, High Performance Vector Control AC Drive



Product Range

Model		KW (HP)		7.5 (10)	11 (15)	15 (20)	18.5 (25)	22 (30)	30 (40)	37 (50)	45 (60)	55 (75)	75 (100)	90 (120)	110 (150)	132 (175)	160 (215)	185 (250)	220 (300)	250 (335)	280 (375)	315 (420)	355 (475)
SF-G	020-G	3-phase 220V	120%, 60s →																				
			150%, 60s →																				
	040-G	3-phase 440V	120%, 60s →																				
			150%, 60s →																				

Main Features

* Dual specifications with HD: 150% 60s / LD: 120% 60s
* V/F control, general purpose magnetic flux vector control, SVC sensor-less vector control, FOC+PG closed loop vector control, high torque output at low speed, and the best power saving control mode.
* Increased load capacity to 200% / s
* Embedded regeneration brake transistor(22kW or below)
* Strengthened PID function, Multi-channel control function for fan and pump
* RS-485 interface, selection between Shihlin protocol/standard Modbus protocol
* Strengthened speed tracking compensation capability
* Soft PWM function
* Multiple function pulse output
* Remote control panel through RJ45
* Support various expansion boards : injection molding machine specific expansion boards, Multi-channel control function for fan and pump

SA3 Series Heavy Duty AC Motor Drive with Dual Rating Vector Control



Product Range

Model		KW (HP)	0.75 (1)	1.5 (2)	2.2 (3)	3.7 (5)	5.5 (7.5)	7.5 (10)	11 (15)	15 (20)	18.5 (25)	22 (30)	30 (40)	37 (50)	45 (60)	55 (75)	75 (100)	90 (120)	110 (150)	132 (175)	160 (215)	185 (250)	220 (300)	250 (335)	280 (375)	315 (420)	355 (475)
SA3	023	3-Phase 220V																								
	043	3-Phase 440V																								

Main Features

- High Starting Torque: 180% 0Hz
- Speed / Torque / Position Control mode
- Dual Rating Design (ND/HD)
- Outstanding 4-Quadrant Torque Control / Limit
- IM / PM Motor Types Selection
- Common DC Bus Support
- Advanced Stall Protection And Prevention
- Built-in Intelligent Shihlin PLC
- Better Environmental Adaptation : High ambient (3000m), RFI Filter (Optional), Circuit Board Coating

Built-in PLC function.
- 42 I/O, auxiliary relay, timer, counter and data register supported.
Various communication network: Modbus, CAN open, PROFIBUS, Device net, Ether NET. 16 Step Spinning Software.

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Shihlin Electric

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Shihlin Electric Servo Drive & Motor



Main Features

SDA & SDH series

- 22 bit, 4,194,394 pulse/rev, high resolution encoder feedback
- Speed response 1.6KHz
- Built-in simple PLC function (Single-axis control mode)
- Compatible with fully closed loop control

- Encoder Feedback: 2500ppr(10000 resolutions) incremental encoder
- Built-in single axis control mode
- Multiple programmable digital inputs (DI) and digital outputs(DO)
- Modbus communication and USB interface

Capacity:
50W, 100W, 200W, 400W, 750W, 1kW, 1.5kW 2kW, 3kW, 5kW, 7kw



Main Features

SDP series

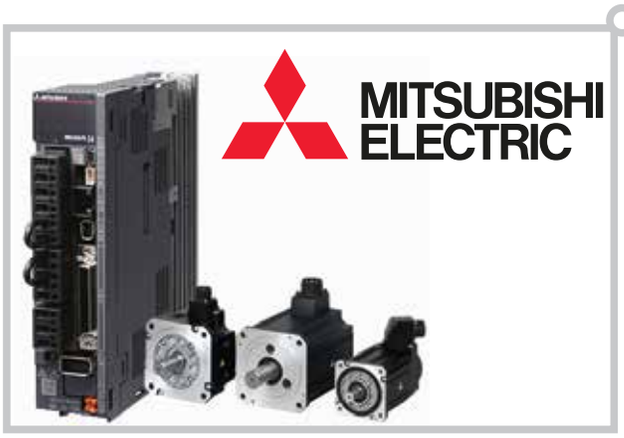
SDP AC servo system supports CiA402 device profile for drives and motion control, and it is compatible with a variety of EtherCAT Masters on the market. SDP provides wide range of applications and solutions for servo motion.

- High speed response up to 2.5 KHz and high resolution encoder 24 bit
- Automatic one touch tuning function
- Support 8 control mode, touch probe function, and 32 HM methods.
- Support the fastest communication cycle: 100 us
- Offer automatic high/low-frequency vibration suppression, friction compensation, and backlash compensation functions
- Motor speed up to 6000 rpm and excellent torque output
- Support Electronic cam function which can be planned up to 720 points absolute position system
- Support fully-closed Control
- Safe Torque Off (STO) function.

Capacity:
50W, 100W, 200W, 400W, 750W, 1kW, 1.5kW 2kW, 3kW, 5kW, 7kw

We Also Deal with Following Servo Drive & Motor





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FATEK® The Brand You Can Rely on

Headquarters
www.fatek.com

OHSAS 18001 ISO 14001 ISO 9001



FBs-Series

Programmable Logic Controller

- Cutting edge PLC
- State of the art technology
- Compact & Powerful
- Extensive product range
- Reliable & Durable



Memory Card



I/O Expansion Modules



GSM Communication Modules



Programming Cable



DC Power Supply



Input: 100-240VAC, Output: 24VDC, 5A



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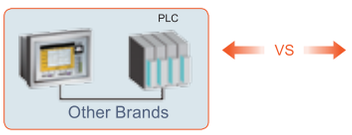




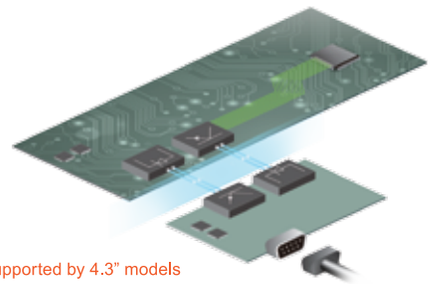
HMI
Human Machine Interface

P5 Series
Human Machine Interface

- High Standards of Noise Immunity and Quality
- Optional Integrated Rear Mount PLC
- Intuitive Software Environment and Aesthetic GUI
- Powerful Programming Features







* : Not supported by 4.3" models

Model	Size	Model	Size	Model	Size
P5043S	4.3" HMI (Standard)	P5070S	7" HMI (Standard)	P5102S	10.2" HMI (Standard)
P5043N	4.3" HMI (Ethernet)	P5070N	7" HMI (Ethernet)	P5102N	10.2" HMI (Ethernet)

We Also Deal with Following PLC



MITSUBISHI ELECTRIC



SIEMENS



Allen-Bradley



OMRON

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Engineering Limited

FOTEK
SENSORS & CONTROLLERS
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Proximity Sensors



Photo Sensors



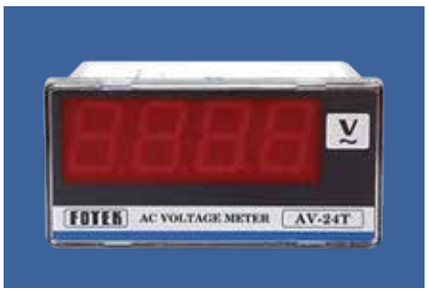
Temperature controller



SSR (Solid State Relay)



Rotary Encoder



Digital Scale Meter

DC Power Supply

MW
MEAN WELL





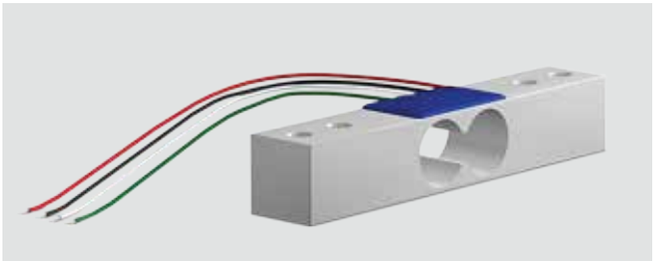


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mavin®





Shear Beam Load Cell



I Type Load Cell



Beam Type Load Cell



S Type Load Cell



Trucks/Bridge Load Cell



Stainless Steel Junction Box

Weighing Indicator/Display

LIPROTEK





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DIGITAL TRUCK SCALE

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DIGITAL TRUCK SCALE

Easy Installation
Digital Display
Communication Technology
Intelligent Technology
Digital Diagnosis Technology
Printable Weighing Results
Fault Diagnosis Technology





Scale Indicator &
Scale Controller System



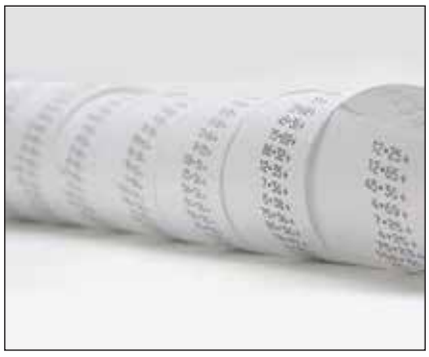
Load Cells



Calibrating Scale Weights



Scale Driver Software



Reporting & Printing



Data Store

Level Solution

FineTek

Headquarters
www.fine-tek.com

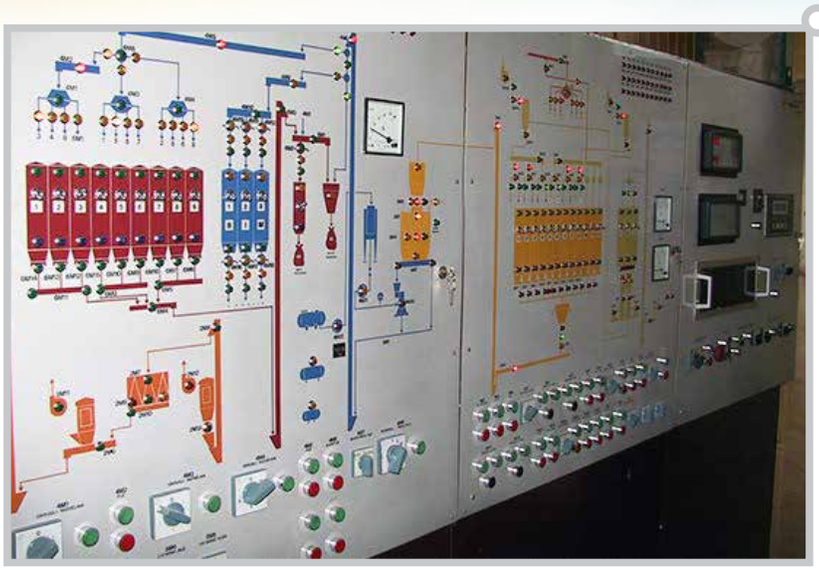


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Panel Board

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Complete Panel Solution

- Maximum Flexibility
- Advanced Engineering
- Simplified Design & Wiring
- Cost Efficient Solution
- CNC LASER Cutting
- International Electrotechnical Commissioning Standard

Our offer-able Panels with Solution

- MCC Panel
- PFI Panel
- Metering Panel
- LT Switchgear Panel
- HT Panel
- Distribution Panel (MDB & SDB)
- Control Panel





HT Switchgear



LT Switchgear



PFI Plant



Distribution Board (MDB/SDB)

Shihlin Electric

ABB

Schneider Electric

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Yunfeng Incubation Technology

S-Line System

For both single-stage and multi-stage

DCIII Touch Control System



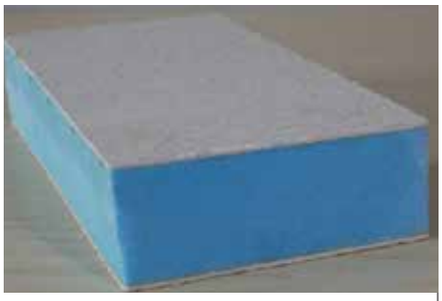
Advanced Touch control system
Large LCD display
Friendly interface, powerful function
Temperature sensor from Germany
PID control, to ensure stable temperature.

CO_2 Control



CO_2 control function optional
Damper controlled by CO2 not
Temperature under this function
Using Swiss made actuator

Cabinet and wall panels



High density BLUE foam insulation
High grade of FRP skin for wall, ceiling, and door panels





	Setters					Hatcher
	DF1152	DF768	DF576	DF384	DF192	DC192
Capacity						
Chicken Egg/150 egg tray	115200	76800	57600	38400	19200	19200
Turkey(Duck)/63(126) egg tray			36288	24192	12096	12096
Large Goose Eggs/63 egg tray			21168	14112	7056	7056
Small Goose Eggs/36 egg tray			25920	17280	8640	8640
Quail Eggs/221 egg tray					63648	63648
Trolley Number	24	16	12	8	4	4
Max Power (KW	18.5	18.5	9.2	9.2	5.8	5.6
Control System	DCIII Touch Control System, 7 inch LCD, all parts big brands					
Heating	Electric heating system					
Cooling	Water cooling system					
Humidity	Nozzle sprayer (disc humidifier optional)					
Electricity	380V/5OHz,3 phase(other electricity also available)					
CO2	Option					

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BETTER
BEI DE DEVELOPMENT CO.,LTD
(Taiwan)



FEED MILL MACHINE

☑ Feed Mill Machine Manufacturer and Supplier Form Taiwan



Crumbled Feed



Poultry Feed Pellets



Cattle Feed Pellets



Fish Feed Pellets

Business Scope: Offer project plan and equipment for complete animal feed processing plant for Chicken, Fish and Duck, from designing, equipment manufacturing, factory constructing, commissioning, debugging and onsite operation training.



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Leading the way to the future
USA

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At a Glance



















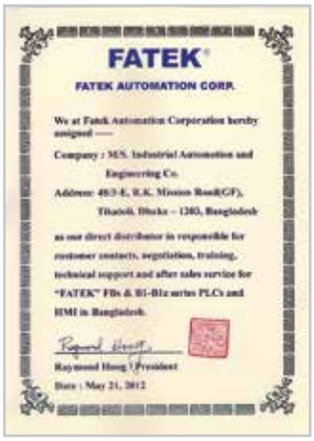












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Industrial Automation & Engineering Co.

Sonali Agro Industries

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Web: www.automationbd.com

Show Room:
alpha electric
Nurjahan Electric Market (Inside of Fenci Electric Market)
Shop # 05, 110, BCC Road, Nawabpur, Dhaka-1100
Cell: +8801750 042201, +8801711 374252

Factory:
Tech Workshop
254/24, Dogair, Sign Board, Demra, Dhaka.