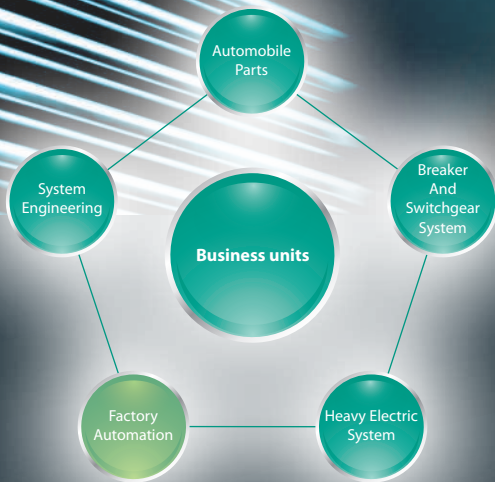




Factory Automation



About US

Shihlin Electric Corp., established in 1955, devoted to research and develop power related products, which cover from Automobile Equipment System, Breaker Switchgear & System, Heavy Electric System, and Factory Automation. Our persistent in the belief of "improvement over time" in running the operation and in corporate development has not only made us a leader in the domestic market, but also performed splendidly in the overseas market. To make our brand awareness highly recognized, we cautious deployment and work hard on overseas marketing and sales.

The setup of overseas branches and factories had complied with the rapid growth of product demand and to cater to the service of customer worldwide. Shihlin Electric, even with over 60 years of experiences, is still improving itself to better keep up with the globalization. Now, we spare no effort in searching for suitable business partner and expand our brand into local market. We provide not just the qualified product but also excellent service and professional knowledge.

Now, with to the advance of science and technology, the market demand for electrical product would only grow exponentially. We hold great vision for the coming future. As we are in search of excellence, we do will take part in global competition.

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Factory Automation Division Introduction

In view of the continuous industrial and technological advancement, Shihlin Electric established the Automation Business Group in 1984 to search for talents in advanced technology and management. The main objective of Automation Business Group is to provide automation equipment for the industries and to help the development of industries toward automation, technologization and digitization. The Shihlin Automation Business Group is one of the well-known manufacturers in Taiwan capable of providing the client a complete set of industrial automation products including Programmable Logic Controller (PLC), Human-Machine Interface (HMI), Temperature Controller, Inverter, and Servo Motor and Drive.

The Automation Business Group was founded for selling Programmable Logic Controller (PLC), Inverter, Servo Motor and Drive as Mitsubishi distributor initially in the following years. To achieve sustainable operation, it began the development and manufacturing of the next generation Shihlin Electric inverter that has the advantages of high efficiency and compact design. Later, the Automation Business Group employed the high-speed SMT automated production line as well as the high-precision testing equipment (i.e., ICT), and began the development of novel Human-Machine Interface (HMI), Inverter, Servo Motor and Drive, etc. Based on the accumulated experience in technology R&D, the Automation Business Group of Shihlin Electric has become a key automation products and service provider.

Manufacturing and Products Milestone

- 
- 2021
 - Inverter- SL3 series launched
 - Servo Motor and Drive - SDE-P series launched
 - 2019
 - Inverter - SF3 series launched
 - Servo Motor and Drive - SDP-A series launched
 - 2017
 - Inverter - SE3 series launched
 - Servo Motor and Drive - SDP series launched
 - 2016
 - Inverter - SC3 series launched
 - Servo Motor and Drive - SDE series launched
 - 2015
 - Inverter - SA3 series launched
 - 2014
 - Servo Motor and Drive - SDH series launched
 - Inaugurated SuZhou Factory
 - 2013
 - Inverter - SF-GT series launched
 - Servo Motor and Drive - SDA/SDB series launched
 - 2011
 - HMI - EC series launched
 - 2010
 - Inverter - SF/SS2/SE2 series launched
 - 2009
 - Inverter - SE series launched
 - Inverter - SC series launched
 - 2008
 - ROHS Production Line Completed
 - HMI - EU series launched
 - 2007
 - SMT for ROHS Requirement
 - 2006
 - SH series 18.5-22KW launched
 - 2005
 - Inverter - SS and SH series under 15KW launched
 - 2004
 - Inverter R&D Center established (SuZhou)
 - 2003
 - SMT Line Setup (SuZhou)
 - 2002
 - Inverter - SH series launched
 - SuZhou Factory invested
 - 1998
 - Inverter - SL series launched
 - 1996
 - The Second SMT Line Completed
 - 1994
 - The First SMT Line Completed
 - 1984
 - Factory Automation Division Established



Inverter Family



SC3
0.2-5.5kW

Compact Inverter with Vector Control



SE3
0.4-22kW

High Speed Closed Loop Inverter



SA3
0.75-315kW

Closed Loop Communication Inverter



SF3
3.7-355kW

Communication Vector Control Inverter



SS2
0.4-5.5kW

General Vector Control Inverter



Servo Motor and Drive Family



SDE

50W - 3kW
Resolution: 22 bit
Speed response: 1.2kHz

High Efficiency



SDP

50W - 7kW
Resolution: 24 bit
Speed response: 2.5kHz

Communication

EtherCAT
Conformance tested



SC3 Series Compact Inverter with Vector Control

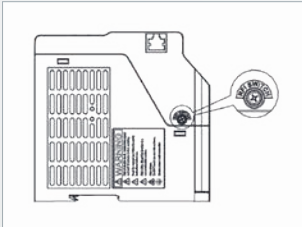
Product Range

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							
SC3-023	3 phase 220V							
SC3-043	3 phase 440V							

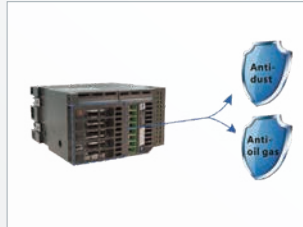
Main Features

- * Compact design for space saving and DIN rail mounting
- * Improved torque characteristic in low frequency operation
- * Reduced noise in low frequency operation
- * Built-in PID feedback control
- * Built-in RFI switch
- * Shock and vibration resistance design
- * Overload rating 150% 60s 200% 1s

Product Features



Built-in RFI filter



Coating & Isolated Air Duct



Quick Connect to External Keypad



Easy Maintenance

Applications



Conveyor Belt



Sealing Machine



Band-sawing Machine



Pressure Fan



Noodle Machine



Slicer



SE3 Series High Speed Closed Loop/Communication Inverter

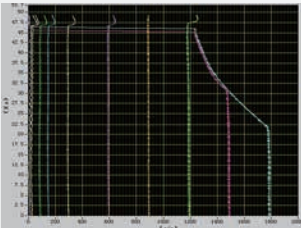
Product Range

Model		kW (HP)	0.4 (0.5)	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	SE3-021	1 phase 220V											
	SE3-023	3 phase 220V											
	SE3-043	3 phase 440V											

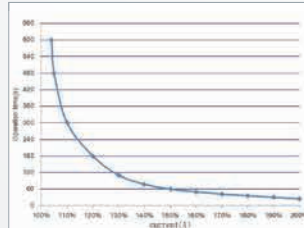
Main Features

- * With one expansion card slot for closed loop/communication/IO
- * High performance closed loop vector control with 200% 0.5Hz starting torque
- * Up to 1500Hz high speed frequency output
- * Synchronous motor compatible: SPM/IPM
- * Closed loop control: Speed/ Torque/ Position/ Tension mode with mode switch function
- * Built-in PLC with free ladder software
- * Built-in RFI filter
- * Support Modbus TCP/ CANopen/ Profibus/ DeviceNet/ EtherCAT communication card
- * Overload rating 150% 60s 200% 3s

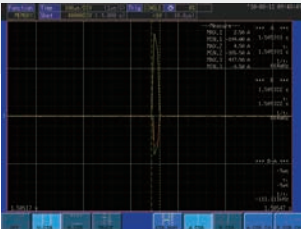
Product Features



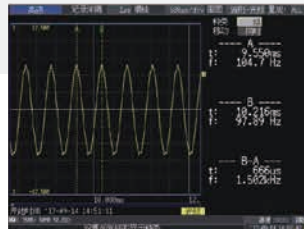
High-performance sensorless vector control technique



Excellent overload current rating of 150% 60s; 200% 3s



Complete protection functions



Up to 1500Hz high speed frequency output

Applications



Air Compressor



Injection Molding Machine



Machine Tools



Carving Machine



CNC tooling Machine



Wood cutting



SA3 Series Inverter

Advanced Closed Loop Communication

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	SA3-023	3 phase 220V	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →
		3 phase 440V	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →	200%3s →	120%60s →	150%60s →

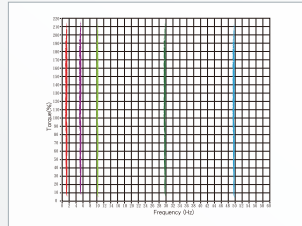
Main Features

- * With three expansion card slots for closed loop, communication and IO
- * Support LCD keypad to operate in different language, monitor multiple values
- * High performance closed loop vector control with 180% 0Hz starting torque
- * 4 quadrant torque control
- * Synchronous motor compatible: SPM/IPM
- * Closed loop control: Speed/ Torque/ Position/ Tension mode with mode switch function
- * Online inertia estimate function
- * Built-in PLC with free ladder software
- * Built-in RFI filter
- * Support Modbus TCP/ CANopen/ Profibus/ DeviceNet/ EtherCAT communication card
- * Overload rating 150% 60s 200% 3s

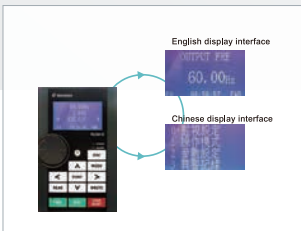
Product Features



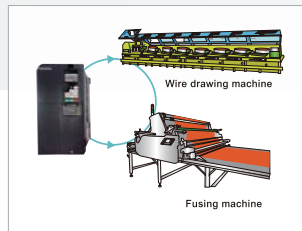
Advanced Synchronous Motors Control Technology



Outstanding performance of overloading and accuracy

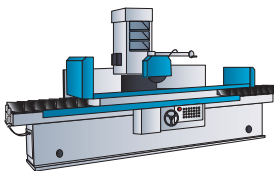


User-friendly LCD operating interface

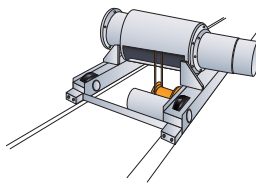


Multiple control mode for various applications

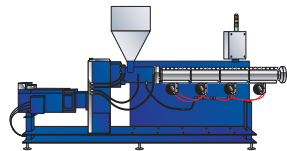
Applications



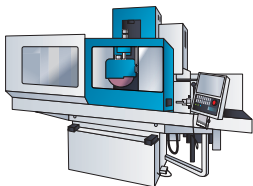
Milling Machine



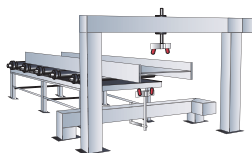
Cranes



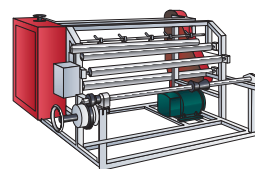
Extrusion Machine



Grinding Machine



Constant Pressure Pump



Slitting Machine



SF3 Series Inverter

Communication Vector Control

Product Range

Model	kW (HP)	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)
SF3 SF3-043	3 phase 440V	150%60s → 200%3s →	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→

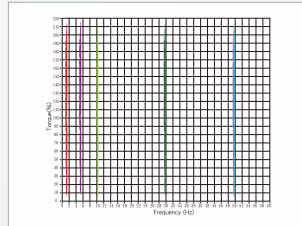
Main Features

- * With one expansion card slot for communication/IO
- * Support LCD keypad to operate in different language, monitor multiple values
- * Fire mode function for HVAC application
- * Drive up to 6 pumps with pump card
- * Synchronous motor compatible: SPM/IPM
- * Built-in PLC with free ladder software
- * Built-in RFI filter
- * Support Modbus TCP/ CANopen/ Profibus/ DeviceNet/ EtherCAT communication card
- * Overload rating 150% 60s 200% 3s

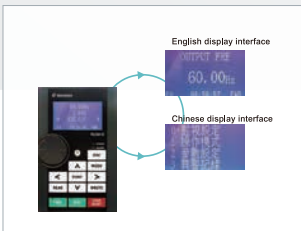
Product Features



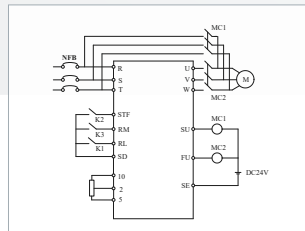
Advanced Synchronous Motors Control Technology



Outstanding performance of overloading and accuracy



User-friendly LCD operating interface



Equipped with grid power frequency switching mechanism

Applications



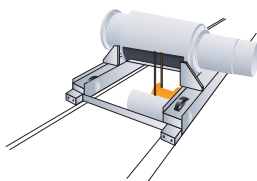
Pressure Fan



Conveyer Belt



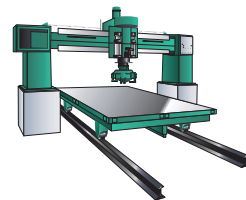
Air Compressor



Cranes



Constant Pressure Water Supply



Polishing Machine



SS2 Series General Vector Control Inverter

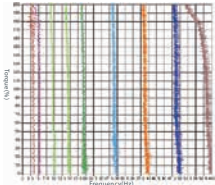
Product Range

Model		kW (HP)	0.4 (0.5)	0.75 (1)	1.5 (2)	2.2 (3)	3.7 (5)	5.5 (7.5)	
SS2	SS2-021	1 phase 220V							
	SS2-023	3 phase 220V							
	SS2-043	3 phase 440V							

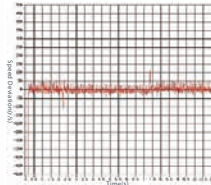
Main Features

- * Built-in shuttle knob to adjust output frequency easily.
- * Built-in RS-485 communication interface.
- * Support MODBUS -ASCII, MODBUS-RTU, and Shihlin communication protocol.
- * Built-in proportion linkage control function to support multiple inverters connection.
- * Maximum 650Hz frequency output enable to support special and high-speed motors.
- * Support DIN rail mount installation.
- * Support 2 analog setting types: 0-10V and 4-20mA.
- * Constant pressure setting for water pump.
- * Overload rating 150% 60s 200% 1s

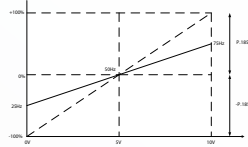
Product Features



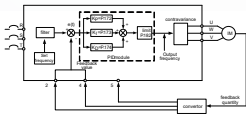
High-performance flux vector control technique



Speed accuracy within 1% (0%~100% loading changes)



Proportion linkage function



PID feedback control function

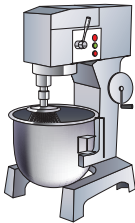


DIN rail mounting

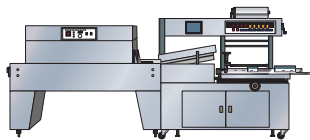


Side-by-side installation

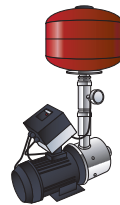
Applications



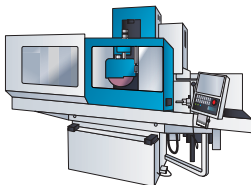
Mixer Machine



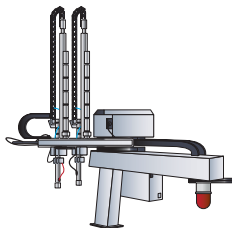
Packing Machine



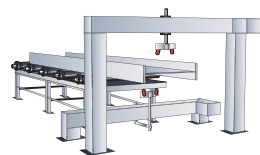
Constant Pressure Water Supply



Grinding Machine



Robot Arm



Painting Machine



SDE Series Servo Motor and Drive

Product Range

	kW (HP)	50W	100W	200W	400W	750W	1kW	1.5kW	2kW	3kW
Drive	1 phase 200~240V	•	•	•	•	•	•	•	•	
	3 phase 200~240V	•	•	•	•	•	•	•	•	•
Motor	Low Inertia	•	•	•	•	•	•	•	•	•
	Medium Inertia						•	•	•	•

Main Features

- * High resolution encoder 22 bit.
- * Speed response: 1.2kHz
- * 5 sets of vibration suppression filter which works automatically
- * Motor speed up to 6000rpm and excellent torque output.
- * Low inertia motor capacity up to 3kW
- * Advanced free PC software for tuning, monitoring
- * Absolute type encoder with battery
- * Two direction motor power cable to fit in all machines
- * Built-in 64 points single axis control mode
- * UL certificate



EtherCAT®
Conformance tested

SDP Series Servo Motor and Drive

Product Range

	kW (HP)	50W	100W	200W	400W	750W	1kW	1.5kW	2kW	3kW	5kW	7kW
Drive	1 phase 200~240V	•	•	•	•	•	•	•	•			
	3 phase 200~240V	•	•	•	•	•	•	•	•	•	•	•
Motor	Low Inertia	•	•	•	•	•	•	•	•	•		
	Medium Inertia						•	•	•	•	•	•

Main Features

- * High resolution encoder 24 bit.
- * Speed response: 2.5kHz
- * EtherCAT communication with certificate, cycle time up to 100μs
- * 5 sets of vibration suppression filter which works automatically
- * Built-in 64 points single axis control mode
- * One touch tuning function
- * Electronic Cam function with up to 720 adjustable points
- * High speed probe function
- * Complete closed loop function
- * Safe torque off(STO) function



EC200 H Series (EC207/208/210)

Main Features

- * LCD size: 7inch, 8inch, and 10.2 inch
- * Screen: TFT 65K colors
- * Resolution: EC208 (8") : 800x600 DPI \ EC207/EC210 (7",10.2") : 800x480 DPI
- * CPU performance 800Mhz
- * Memory capacity 256MB
- * Provide COM port for RS232/ RS422/ RS485/Modbus/Ethernet communication
- * Support USB port to transfer data between HMI and PLC
- * Support large recipe (20MB) for thousands of data planning
- * Support HMI database and recipe search

Software features

- | | | |
|--------------------------|---|--|
| * First page assignable | * Advanced recipe funtion | * The alarm record function |
| * Time action | * Blacklight lighting for alarm trigger | * The recipe function |
| * Clock function | * History trend chart | * The floating alarm function |
| * Numeral blink function | * Combo box function | * The security function |
| * Print screen function | * Slider function | * Screen design software:
EU Work 2 |
| * Confirm box function | * The library function | |



WT Series Temperature Controller

Excellent Control Performance

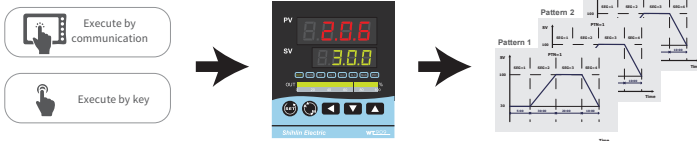
PID Control
Super SV function can effectively suppress temperature overshoot and quickly reach the set temperature.

Auto-tuning
Calculate the optimal PID of the system value automatically, to achieve precise control effect.

High speed control
50ms sampling time for fast and precise control of the occasion.

Powerful Program Control

Provides 15 patterns of 10 segments of program control, each segment can be arbitrarily set to ramp, soak, step or cool down temperature, the user can be arbitrary according to the demand, the maximum can support to 150 segments program control.



High Accuracy

Input with 14 bit A/D resolution, 0.1% accuracy of FS. Build in Auto Zero- Auto Span function to keep good accuracy.

Modbus Communication

WT series support both Modbus RTU. Communication between controller and HMI or other equipment is more convenient. (*optional Function)

Support Various Input Sensor

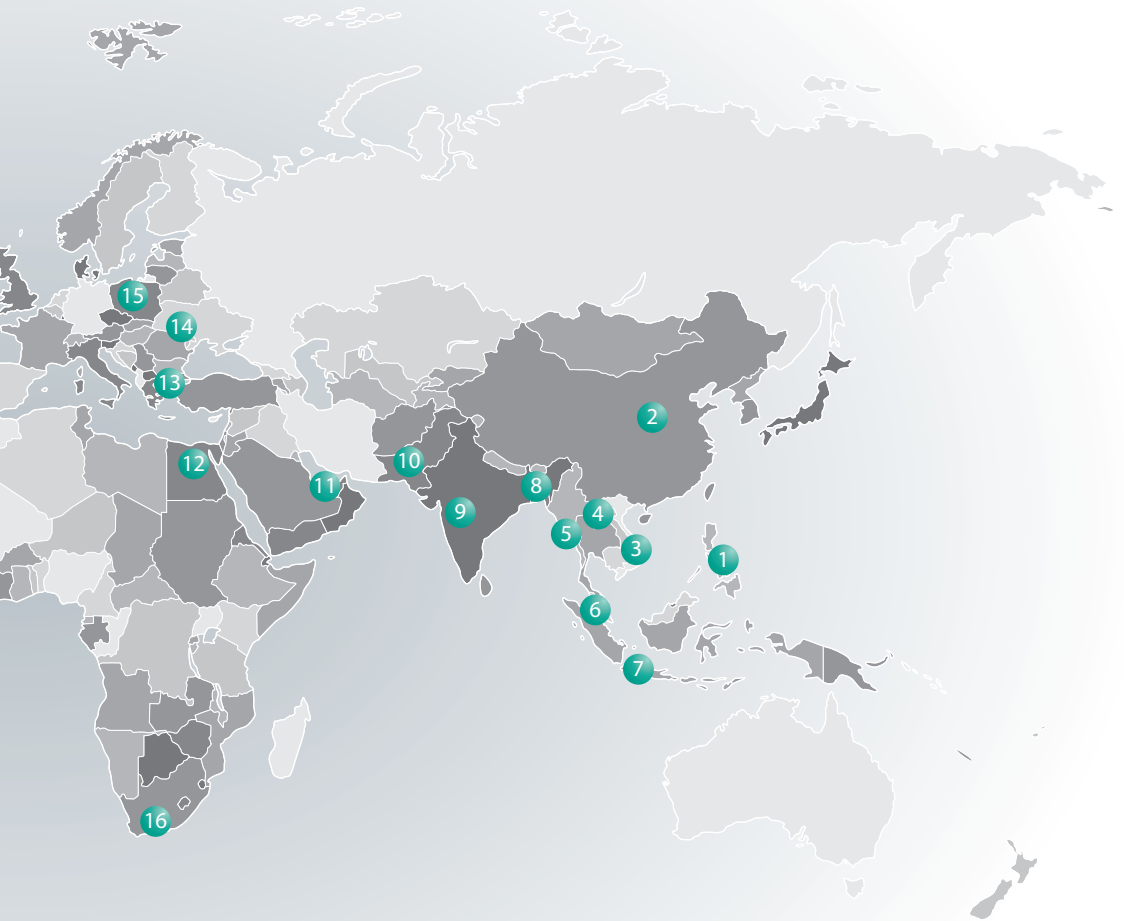


Global Sales Network

FA Distributor



-
- | | | | |
|---|---------------------------|---|--|
| 1 | Philippine, Manila | 5 | Thailand, Bangkok |
| 2 | China | 6 | Malaysia, Johor, Penang Kuala Lumpur |
| 3 | Vietnam, Ho Chi Minh City | 7 | Indonesia(Jakarta, Surabaya, Semarang) |
| 4 | Vietnam, Hanoi | 8 | Bangladesh, Dhaka |
-



9 India, Ahmedabad, Bangalore, Chennai, Mumbai, New Delhi

10 Pakistan, Lahore, Karachi

11 UAE, Dubai

12 Egypt, Cairo

13 Turkey, Istanbul

14 Ukraine, Kiev

15 Poland, Warszawa

16 South Africa, Cape town

17 Mexico, Guadalajara

18 Venezuela, Barquisimeto

19 Colombia, Bogota

Factory Automation



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TEL:+886-2-2834-2662 FAX:+886-2-2836-6187

HsinFun Factory (Taiwan):

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SuZhou Factory(China):

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