



Innovative in Industrial Automation



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Note: Products & data are subject to change without prior notice.

CATALOGUE

Machine Control Panel

Hand-held MPG

Safety Switch & Relay

Relay Module

Brake Module for AC Motors

Communication Interface

Machine Status Indicator Light

CNC System & Interface Cables

SHANDONG SHANSEN CNC TECHNOLOGY CO., LTD.
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Company Profile

ShanSen CNC is a leading Group of Companies for industrial automation including,

- > Tengzhou ShanSen Chuangfa CNC Equipment Co., Ltd.
- > Shandong Rizhao ShanSen CNC Equipment Co., Ltd.
- > ShanSen CNC Technology Co., Ltd.
- > Rizhao ShanSen Machine Sales Co., Ltd.

It is a national high-tech enterprise, a member of china CNC association and director company of Tengzhou Machinery Association.

It has been awarded certificates of GB/T 19001-2008 and ISO 9001:2008 quality assurance systems. Occupying 45000 sqm in total, it has a building area of 31000sqm in which it has first class offices, laboratories, canteens, accommodation, meeting rooms as well as constant-temperature workshops, state-of-the-art manufacturing facilities and inspection equipment.

Its main products include CNC system (1-4 axes), machine operation panel, hand-held MPG, AC motor brake module, travel limit block, cable hub module, intermediate relay set, communication interface, door safety switch & relay, data cables for CNC machines and so on. Products are widely used in SMTCL, Doosan, Jinan No.1 Machine Tools, DMTG, Yunnan CY Group, Dezhou Machine Tools, Baoji Machine Tools, Zhejiang Kaida and other 1000 companies. It has been granted with supplier excellence awards for continuous years from SMTCL and other companies.

With decade of development, it sticks to the principle of customer first and service foremost and wins a superb reputation in the industries.



Plant 1



Plant 2



Major Clients

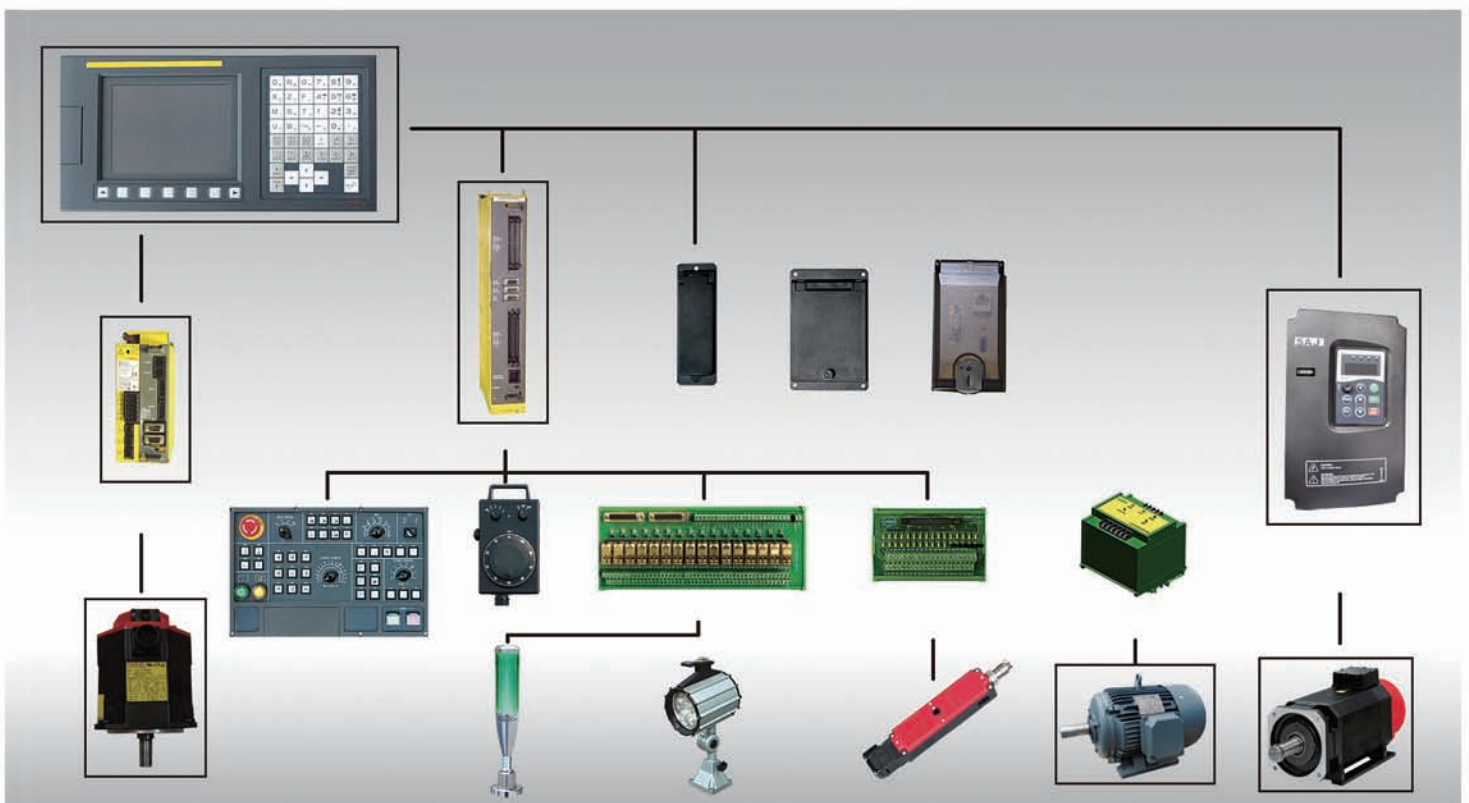
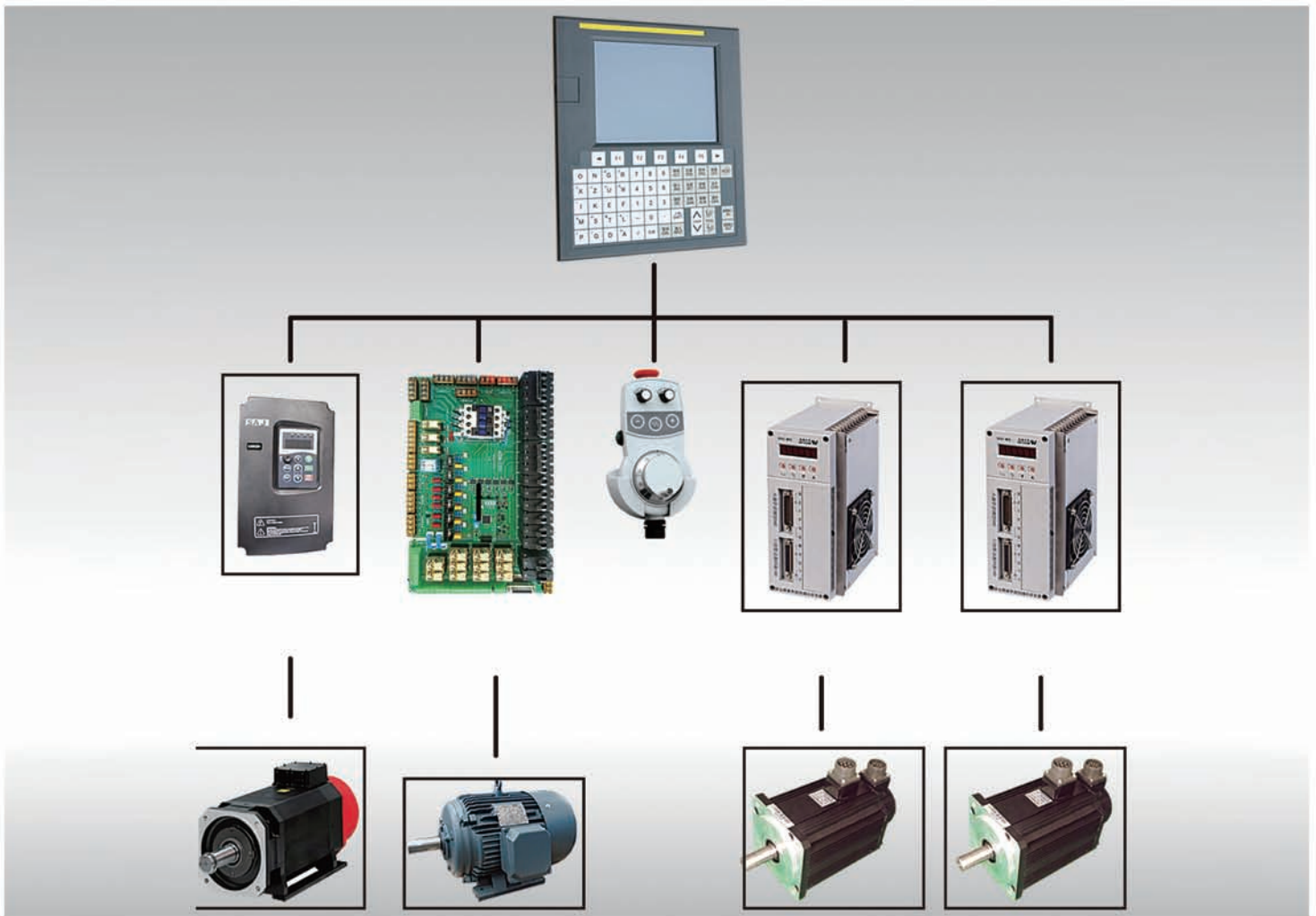


Note: more than 1000 clients up to year 2016

Products

1	Machine Operation Panel		P 1 - 2
2	Hand-held MPG Unit		P 3
3	Safety Switch		P 4 - 5
4	Safety Relay		P 6
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Applications



Machine Operation Panel (MOP)

Machine Operation Panel



For FANUC System



For SIEMENS System



For MITSUBISHI System



For SYNTEC System

Note: Machine operation panels for other CNC systems are also available.

Machine Operation Panel (MOP)

Introduction:

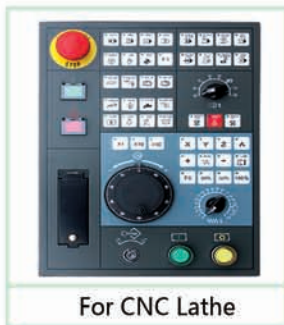
The machine operation panel is designed for easy control of various CNC machines. Featuring modular design, standardized functions & dimensions, it is compatible perfectly with diverse CNC systems, ie FANUC, SIEMENS, MITSUBISHI, SYNTEC and others. Functions on the panel can be tailor-made according to specific needs of machine OEM makers.



Vertical Layout



Horizontal Layout



For CNC Lathe



For CNC Machining Centers



For CNC Milling Machine

Order:

MPG: ☐ with integrated MPG ☐ without integrated MPG ☐ with MPG interface ☐ without MPG interface

Key: ☐ crystal keys ☐ film-covered keys ☐ others ____ ☐ with indicator LED ☐ without indicator LED

Communication interface: ☐ without ☐ RS 232 ☐ others ____

Display: ☐ without ☐ tool number ☐ spindle speed step ☐ others ____

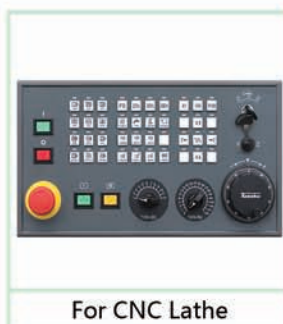
Others: _____

Encrypted Matrix Machine Operation Panel (MOP)

Encrypted matrix machine operation panel (MOP) is also available for FANUC and MITSUBISHI CNC systems.

Main features of encrypted matrix MOP:

- Matrix ciucuits
- Random code encryption, high security
- 16/16 I/O points for 64/64 I/O channels
- Compatible with FANUC & MITSUBISHI systems



For CNC Lathe



For CNC Machining Centers



For Drilling & Tapping Centers

Hand-held MPG

I. SE Series

Ergonomic design and neat outlook.

With high performance encoder,

Aluminium alloy rotary switch.

Strong magnet integrated for easy firm mounting together with housing bracket.

With quality two-layer shielded spring type cable with strength up to 200,000 pulling.

Oil-proof design. IP65 class protection.

Emergency stop, enable button, JOG and rapid buttons are available as options.



II. SS Series

DC5/12V input. With power indicator.



III. SM Series

Enable button integrated.



IV. SH Series

Big handwheel for easy operation.



Order:

Voltage: ☐ 5V ☐ 5V differential ☐ 12V ☐ 24V optocoupler ☐ other

Pulse output: ☐ 25 ☐ 100

Cable length: ☐ 0m ☐ 2m ☐ 3m ☐ 4m ☐ 5m ☐ 10m

Emergency stop button: ☐ single route ☐ double route

No. of axis: ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7

Enable button: ☐ single ☐ double

Connector: ☐ 19-pin ☐ loose thread

Switch: ☐ scale indicating type ☐ encoder type

Others: _____

I. SS/E-1 Safety Switch

Introduction:

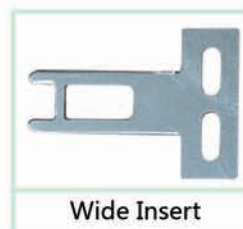
The safety switch is designed for safety protection for various machines. When it is installed, the doors / guards have to be closed to start the machine. And, the doors / guards are locked when the machine is running.

Features:

Compact design with long shape.
With metal actuating head, adjustable in 4 directions.
4 different actuating inserts are available for choice.
Up to 1000N locking force. With manual unlock.
3 different cable entries.

Order:

Insert: ☐ straight ☐ L shape ☐ wide ☐ movable
Plug: ☐ water-proof ☐ aviation plug ☐ without plug
Wire entry: ☐ back ☐ right ☐ left
Length: ____m



II. SS/E-3 Safety Switch

Introduction:

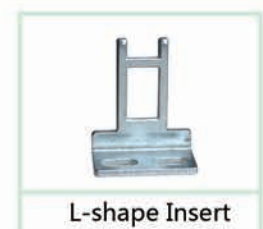
The safety switch is designed for safety protection for various machines. When it is installed, the doors / guards have to be closed to start the machine. And, the doors / guards are locked when the machine is running.

Features:

Compact design with square shape.
With metal actuating head, adjustable in 4 directions.
Unlock via electromagnetic coil excitation
Up to 1300N locking force.
With manual unlock.
Indicator lights with individual circuit suitable for diverse indication.
6-pair contacts integrated for multiple wiring.

Order:

Insert: ☐ straight ☐ L shape ☐ movable
Plug: ☐ water-proof ☐ aviation plug ☐ without plug
Wire entry: ☐ back ☐ right
Length: ____m



Safety Switch

III. SS/E-6 Safety Switch

Introduction:

The safety switch is designed for safety protection for various machines.

Doors / guards are to be locked with electromagnetic force.

Open or close of the doors / guards are to be detected with switching signal.

The machine will run only after doors / guards are closed.

Features:

Compact design.

Locking with electromagnetic force.

Status of doors / guards detection by switching signal.

With position compensation for secured locking.

Metal or plastic brackets are available for choice.

Up to 600N locking force.



Plastic Bracket



Metal Bracket

Order:

Bracket: ☐ plastic ☐ metal

Length: ____m

IV. SS/E-7 Safety Switch

Introduction:

The safety switch is designed for safety protection for various machines.

When it is installed, the doors / guards have to be closed to start the machine.

Status of doors / guards are to be detected with contact switching signal.

There is no locking of the doors / guards.

Features:

Compact design, especially suitable for limited space.

With metal actuating head, adjustable in 4 directions.

3-pair contacts integrated for multiple wiring.

Standardized contacts for high reliability.



Straight Insert



L-shape Insert



Movable Insert

Order:

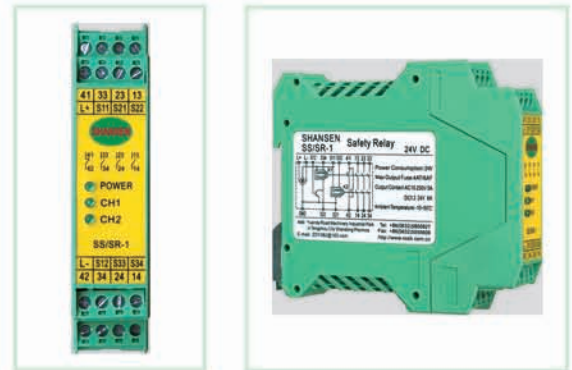
Insert: ☐ straight ☐ L shape ☐ movable

Plug: ☐ water-proof ☐ without plug

Length: ____m

Introduction:

The safety relay is designed to check and monitor a safety system and either allow the machine to start or execute commands to stop the machine. It reliably monitors the signals from safety devices at all times and switch off quickly in an emergency. It provides optimal safety and a high degree of reliability for diverse machines. It enables applications to meet high safety regulations.



It is in compliance with the following safety rules:

With self-monitoring redundant circuit.

Reliable functioning even with one component broken.

Automatic check of the functioning in each switching cycle of proper on and off.

It is suitable for the following circuits:

Emergency stop circuit.

Safety circuits according to GB 5226.1 (EN 60204-1).

Components:

Relay contact output: 3 normally open contacts, 1 normally closed auxiliary contact, wiring terminals for connection with emergency stop button, door safety switch and reset button.

LED status indicators

Feedback control circuit for monitoring external contactors / relays.

Application:



Stopping in an emergency (EMERGENCY-STOP disconnection)

Safely stopping a hazardous movement with Emergency-Stop devices



Safe operation with two-hand controls

Applied with hazardous machine movements such as pressing, punching and shearing



Monitoring of movable guards

Reliable detection of door, guard or flap positions



Delayed and non-delayed contact expansions

Increasing the number of enabling contacts



Monitoring open hazardous areas

Protecting hazardous areas with electro-sensitive protective equipment (ESPE) such as light curtains



Off-delayed shutdown

Delaying the shutdown time of enabling contacts

Relay Module

Introduction:

The relay module is designed for amplification and isolation of output signals from the CNC system. Featuring easy installation, compact design and cost saving, it is widely used to control spindles, ATC, coolant, etc.

For FANUC/SIEMENS



Model: ZJB-50B/16F16

For FANUC/SIEMENS



Model: ZJB-50B/10F10

For MITSUBISHI



Model: ZJB-40B/16M16

For MITSUBISHI



Model: ZJB-40B/10M10

For SYNTEC



Model: TB16OUT-6.1

For SYNTEC



Model: TB16OUT-R8-1.0

Common Relay



Model: ZJB-16C/16

Common Relay



Model: ZJB-FY-16

Note: Tailor-made relay modules according to specific requirements are available.

Cable Hub Module

Introduction:

The cable hub module is designed for breaking down signals from plugs into individual terminals for easy connection and checks. It is widely used for I/O connections in automation industries.



Model: FX-50BZ



Model: FX-25DZ



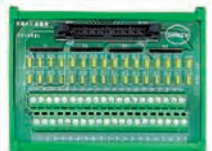
Model: FX-DZP



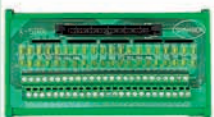
Model: FX-40B



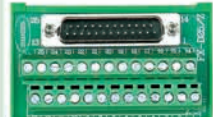
Model: FX-40BZ



Model: FX-40BL



Model: FX-50BL



Model: FX-25DZZ



Model: FX-50K



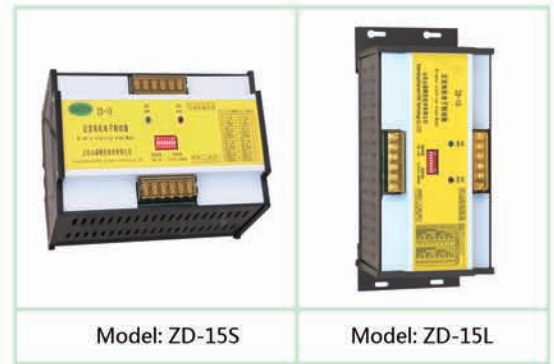
Model: FX-50B

Note: Tailor-made cable hub modules according to specific requirements are available.

Digital Brake for AC Motor

Introduction:

The digital brake is designed for efficient braking of AC asynchronous motors. With digital technology and micro-computer technology for braking, it has various functions, ie. setup of braking time, setup of braking current, monitor, feedback of motor speed and so on. It features fast, efficient, safe braking and long life.



Model: ZD-15S

Model: ZD-15L

Working Principle:

Working power for zd-15 digital brake is AC 380V (optional: AC 220V). The power is converted into DC braking current through SCR bridge module. Electromagnet field generated by the current works on the motor stator circuit for fast braking of the ac motor.

Features:

Fast & efficient braking. Long life.

Braking current and time can be set-up as per ac motor and load.

Braking status can be monitored. Output of braking signal will stop within 0.5 or 1 second after stop of motor.

Easy connection with AC motor main circuit and suitable for single speed, multi-speeds, star and delta wiring.

It can also interlock with controlling circuit for safe and reliable running.

Lower cost, easier mount, faster braking and longer life than traditional braking mechanism.

Communication Interface Module

Introduction:

The communication interface module is designed for communication between CNC systems and computers.



Model: RS/40-N

I. RS/40 Module



Model: RS/40-9K



Model: RS/40-N-U



Model: RS/40-9K-N



Model: RS/40-25K

Order:

Interface: ☐ C5 net interface

☐ 9-pin hole

☐ 9-pin

☐ USB interface

☐ 25-pin hole

☐ 25-pin

Cable length: ____m

Communication Interface Module

II. RS232 Module



Order:

Interface: ☐ C5 net interface ☐ USB interface ☐ 9-pin hole ☐ 25-pin hole
☐ 9-pin ☐ 25-pin ☐ America standard power socket ☐ Universal power socket
 Cable length: ____m

III. E Type Communication Interface Module

Introduction:

The E type communication interface module is designed with separate housing and interfaces. It is flexible for diverse needs.

Interfaces:



No.	1	2	3	4
Interfaces				
Remarks	With universal power socket, 220V, 5A, 1Ph	With USB, RJ45, D-type 9-pin interfaces	With USB, RJ45, D-type 25-pin interfaces	With BNC, RJ45, D-type 9-pin interfaces
No.	5	6	7	8
Interfaces				
Remarks	With D-type 9 & 25-pin interfaces	With German universal power socket, 220V, 6A, 1Ph	With USA universal power socket, 220V, 5A, 1Ph, and D-type 9-pin interfaces	With Australian power socket, 220V, 5A, 1Ph

Machine Status Indicator Light

I. JCB-6 Series

Features:

Inserting structure. Integral lamp and cover of each layer. Easy installation, maintenance and change.

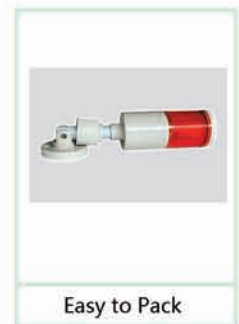
LED lamp with high luminosity, high purity, wide illuminating angle and long life.

Suitable for AC / DC.

Two types: flashing and always-on.

Flashing frequency $60 \pm 10\%$ /min.

90° rotary of rotary base type for easy packing and transportation.



Order:

Layer: ☐ 1 ☐ 2 ☐ 3

Buzzer: ☐ with ☐ without

Installation: ☐ with rotary base ☐ pipe joint

Specifications:

Rated Power	AC/DC 24V
Working Power	80-120% of rated power
Temperature	-20°C - +60°C

Color	red, yellow, green
Power Consumption	≤ 3 W

II. JCB-7 Series

Features:

One layer structure. Simple, reliable, easy to change & install.

Constant source. Fast response. Long term reliability. maintenance and change.

Suitable for AC / DC.

Clear visability.

90° rotary of rotary base type for easy packing and transportation.

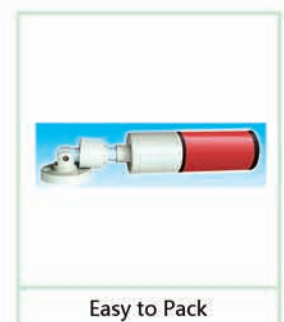
Order:

Installation: ☐ with rotary base ☐ pipe joint

Buzzer: ☐ with ☐ without

Specifications:

Rated Power	AC/DC 24V
Working Power	80-120% of rated power
Temperature	-20°C - +60°C



Color	red, yellow, green
Power Consumption	≤ 3 W

Machine Status Indicator Light

III. LA340B-3 Series

Features:

Neat outlook.

Uniformly distributed light with strong color and high performance.

Easy to install.

Less maintenance.

Specifications:

Rated Power	DC 24V
Working Power	80-120% of rated power
Temperature	-20°C - +60°C
Color	red, yellow, green
Power Consumption	≤3 W



IV. JCB-8 Series

Features:

Patented design. Neat outlook.

Easy to install and repair.

High LED light source. Clear visibility.

Suitable for AC / DC power.

90° rotary of rotary base type for easy packing and transportation.

Length can be customized.

Order:

Light length: □ 165 □ 115 □ 85

Specifications:

Rated Power	AC/DC 24V +10%, -15%
Temperature	-20°C - +60°C
Color	red, yellow, green
Power Consumption	≤3 W



Introduction:

The work light is designed with high power LED diode. It features waterproof, anti-corrosion, energy-saving, environment friendly and long life. It is suitable for various conventional, CNC machines, combined machines and so on.

Order:

No. of joint: ☐ 1 ☐ 2 ☐ 3

Back light: ☐ without ☐ with

Features:

High power SMD LED adopted for strong luminosity.

Long life and energy saving.

320° rotary base for wide angle projecting.

Waterproof, anti-explosion and anti-corrosion.

Suitable for various small, medium size machines and other equipment.



Model: JCLA-1



Model: JCLA-2



Model: JCLA-3

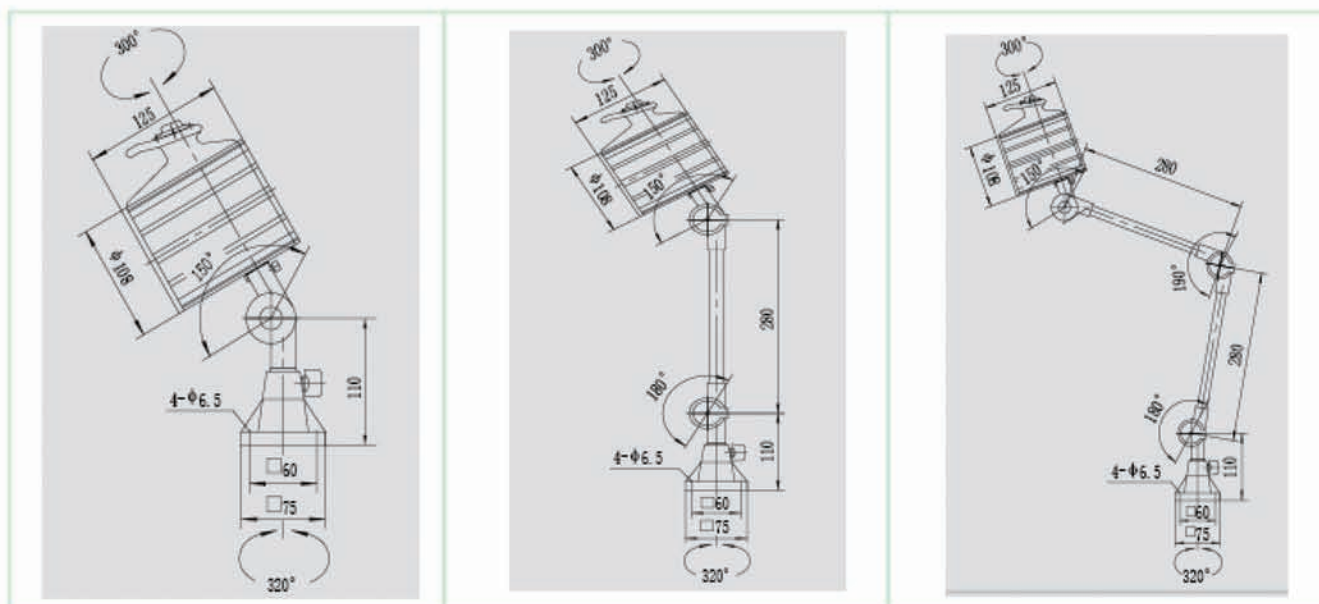


With Back Light

Specifications:

	Model	Input Voltage	Power	Light Source
1	JALA-1	DC/AC 24V	7W	LED
1	JALA-2	DC/AC 24V	7W	LED
3	JALA-3	DC/AC 24V	7W	LED

Dimensions :



CNC System & Interface Cables

I. CNC System Cable

Introduction:

The CNC system cables are made with high end machines and properly tested.

It is made of high grade coopera with shielding layer protection

It can be tailor-made according to specific requirement.

Order:

Length: ____m

Others: ____

Production:



FANUC Cable



MITSUBISHI Cable



SIEMENS Cable



Others



II. Interface Cable

Introduction:

The interface cables can be made with different connectors. They are widely used for connection between I/O interfaces of CNC controller and operation systems or relevant converting modules.

Order:

Number of conductors: ____ Length: ____m

Type: ☐ round normal cable ☐ round twisted pair calbe ☐ flat cable

Connector: ☐ loose thread ☐ HTC pin type ☐ HTC hole type ☐ flat ☐ D type pin ☐ D type hole

☐ one end HTC and one end flat ☐ one end HTC and one end flat

Note: all the round cables are with protection hose.



Model: FK25/D-XM



Model: FK50B/BB-XM



Model: FK50/BB-XM

Integrated Electric Panel

Introduction:

The integrated electric panel is designed basing on traditional circuit plate but without individual automatic switches, AC contactors, relays, distributors and other components.

Features:

Patented design

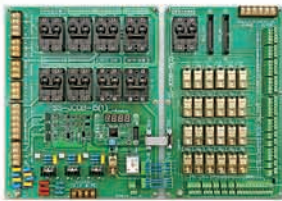
Ideal solutions to replace individual switches, contactors, relays, cable hubs and other electrics.

Cost saving.

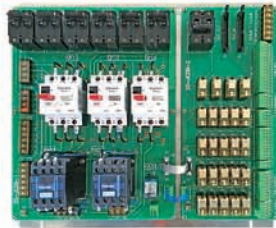
Less wiring, easy to install, high reliability



Compact design



For CNC Machining Center



For CNC Drilling & Tapping Center



For CNC Lathe



For CNC Lathe

Electric Cabinet Set

Introduction:

With a well knowledge of FANUC, SIEMENS, Mitsubishi and other CNC controllers, we provide OEM production of electric cabinets for improved production efficiency for m/c makers.

Services:

Design of electric circuits and diagrams

Supply of complete electric cabinet set

Design and provide PLC programs

Support in installation and commissioning

Support in training

Other tailor-made services

