



# “Providing safety and security to the information-oriented society” is exactly SHODEN’s technology



## Lightning Protection

From lightning, the most serious threat to information communication networks, and electric surges caused by lightning strike and intruding through power / communication line into the system, the valuable equipments and data must be protected.



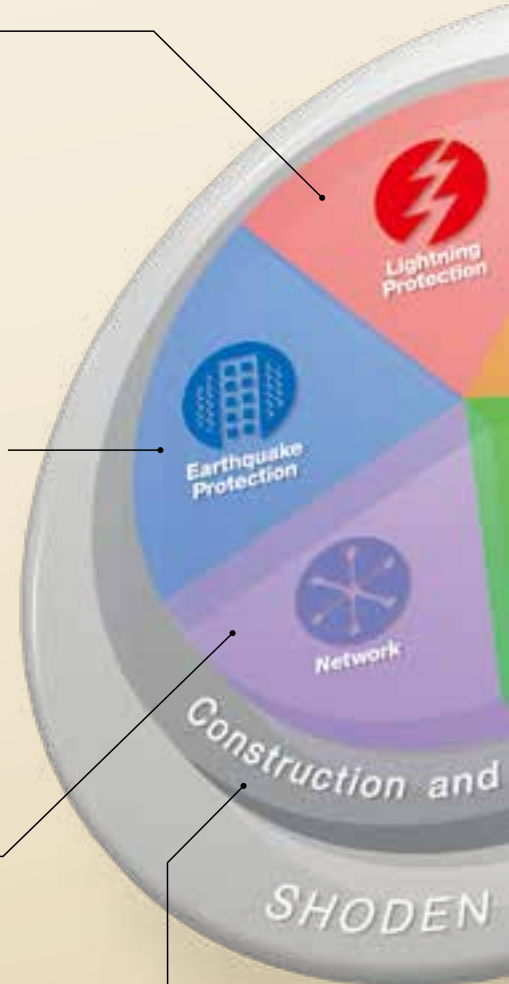
## Earthquake Protection

Valuable machinery such as data-server etc. are protected from damages caused by earthquake. By construction of server-environment prepared for the worst, customer can continue his daily work in the worst case scenario.



## Network

Support to protect the information network keeping the smooth corporate activity from trouble and to maintain the stable network operation. Construction, operation and maintenance of corporate information communication network are provided.



## Construction • Installation

**Not only architectural construction, but also everything of its inside facility is provided by SHODEN’s technologies.**

We, SHODEN provide various installations based on the high-level design capabilities as a first class registered architect office and fully using the technical power built up for long years in the installation works of lightning- and earthquake- protection, network, security and facility. We, SHODEN is ready to meet the customer’s requests widely for base station of cellular phone, communication shelter, cash-service-corner etc., which require a comprehensive technology including electric-, communication-, air-conditioning- and disaster-preventing technology.

Moreover we, SHODEN can comply with the other various customer’s requests for LAN-construction in office, installation of power receiving and voltage transforming equipment etc. Owing to the increasing of local sales center all over Japan one-stop service is available.

## Holding qualifications

### Product design and production

#### Manufacturer of electrical wiring apparatus:

Japan Electrical Safety & Environment Technology Laboratories, East No. 6174

#### All of Japanese Electric Power Company:

Communication safety devices for power transmission (for communication cables)

Qualified manufacturer according to the standards for electric power

#### Japan Electric Association:

Qualified manufacturer according to the communication safety regulations for power transmission, JEAC 6011-1977

#### Japan Railroad Association:

Qualified manufacturer of safety devices (for railroad signal) according to the standards of safety communication for power transmission

Business continuity (BC) through daily work with information communication network is the most important factor to economic activity of every enterprise in the field of not only electrical power, telecommunication, financial business concerning infrastructure, but also distribution industry, service industry etc. In order to protect our customer's corporate information communication networks from disaster and troubles, SHODEN Co., Ltd. has expanded its business in the field of protection measures against lightning- and earthquake damages, networks, security and facilities.

Under the slogan "providing the safety and reliability to the information-oriented society" SHODEN Co., Ltd. offers a one-stop location for the both of excellent products and services.



## Facility

We are ready to meet a wide range of requirements, such as eliminating the risk of trouble arising with power supplies and installing special air-conditioning units in machine rooms, in order to guarantee all of the peripheral equipment indispensable to operating information communication networks at their optimum status.



## Security

We provide security systems to monitor networks and control the entry and exit of personnel in order to protect classified areas containing customer data, confidential data and all other important information from illegal access and the outbreak of fire.



### SHODEN Co., Ltd. obtained ISO 9001 and ISO 14001 - certification

SHODEN has established the production system which can provide the products and services with high quality to the customers and therefore obtained ISO 9001 for facility construction. Our technology center and NARITA-factory obtained also ISO 14001 certification as a fulfillment of social responsibility.



### INSTALLATION-design and -work

#### Class1 architect's office:

Registration of Governor of TOKYO: No.12375

#### Construction license:

license of the Minister of Land-, Infrastructure and Transport (Special) No.921

- Building industry
- Electric construction work

License of Minister of Land-, Infrastructure and Transport (General) No. 921

- Constructor of electric communication installation
- Piping for electric isolation and protection of wiring and laying of air-conditioner duct
- Interior finishing
- Installation of fire-detection and extinguishing facility

### Main items of construction and installation

- Construction of cellular phone base station and shelter for communication installations.
- Construction of a cash-service-corner
- Network construction
- Construction of air-conditioning installation
- Installation of free-access-floor
- Grounding installation
- Installation of power supply equipment
- Installation of power receiving and voltage transforming equipment
- Installation of security system



Cell phone base transceiver station



Contact center

## Company Overview

### Company name

SHODEN CORPORATION

### Founded

October 15, 1965

### Capital

Paid-up capital : ¥302,400,000

### President

Mitsuaki Ota

### Business Interests:

- Manufacture and sale of electrical and communication safety equipment and communication substrates, electrical distribution boards, and electrical switchboards.
- Manufacture and sale of seismic isolators, earthquake-resistant frames, and free access floors.
- Manufacture and sale of optical fiber network-related equipment.
- Sale of LAN-related equipment, various types of transmission switches, and PBX, etc.
- General facility installation, including electrical systems, air-conditioning systems, LAN wiring and the construction of earthquake-resistant architectural structures, etc.
- Consulting services relating to lightning protection measures, earthquake protection measures, anti-fire, anti-crime and anti-disaster measures, and the installation, operation and maintenance of information communication networks.

### Employees

560persons (group)

### Official Website

[www.sdn.co.jp](http://www.sdn.co.jp)



Head Office

## Delivery Destination

### Diversified Range of Customers

Shoden supplies products and engineering services to not only companies advocating social infrastructure networks, but also to a wide range of diversified industries.

- Government offices and public organizations
- Communications industry
- Financial, insurance and securities industries
- Education, research and medical industries
- Electrical and gas utility industries
- Transportation and warehousing industries
- Construction and real estate industries
- Information and other service industries
- Distribution industry
- Food, beverage and tobacco industries
- Publishing and printing industries
- Transportation equipment industry
- Electrical appliance industry
- Oil, chemical, rubber, fiber, paper and ceramics industries
- Mining, metals and machinery industries
- Precision instruments and other manufacturing industries

## Basic Philosophies

### Corporate Creed

Progress and Harmony

### Administrative Creed

Placing the emphasis on reliability and making a principle of accuracy.  
Contributing to society through the medium of technology, and creating affluence for our employees through the prosperity of the company

### Administrative Vision

The thorough establishment of a development-innovative company

### Business Policy

Providing informationalized society with safety and reliability

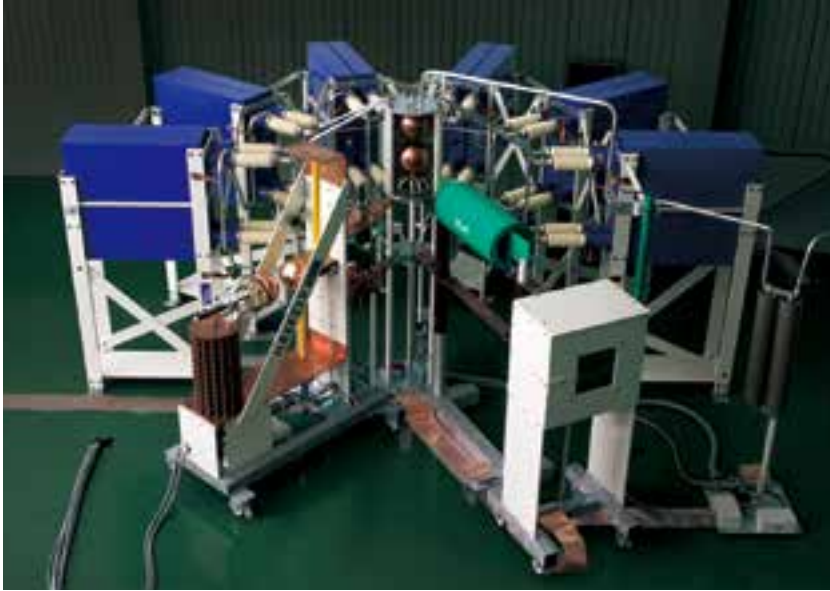


### Meaning of the Company Emblem :

Laying the Japanese characters for "people" (人) beside each other and then enclosing them in a circle represents the meaning of "people in harmony."

## Shoden's Ever-Evolving Research and Development

Shoden's main mission is the research and development of products that protect information communication networks from the risk of lightning strikes and earthquakes. We provide technology that is constantly one step ahead of our customers' requirements by always assuming a stance to solve their problems and offer the world's highest level simulation facilities in all fields.



### Lightning impulse current generator <200kA 10/350μs>

The world's leading lightning impulse current generator capable of generating a maximum current of 200kA (10/350μs360kJ) to simulate direct lightning strikes on buildings. This enables us to carry out evaluations and simulations to the maximum SPD limits.



### Lightning impulse voltage generator <1,200kV 1.2/50μs>

Our lightning impulse voltage generator is used in SPD simulations to generate a maximum surge of 1.2 million volts so that the effects of the surge can be measured.



### Three-dimensional earthquake vibration generator

This three-dimensional earthquake vibration generator is one of the few available in Japan, and it is used in experiments to measure the level of seismic wave vibrations and standing wave vibrations with earthquakes similar in magnitude to the southern Hyogo earthquake (Great Hanshin Earthquake.) The 3m x 3m table enables vibrations to be generated singly in forward/backward, left/right and up/down directions, and in all directions simultaneously.



### Floor Testing Facility

This test machine is capable of measuring the compression strength and tensile strength of materials up to a maximum of 50 tons. Fitted with a backlash elimination system and load balance correction system, it provides new levels of safety and operability with the use of enhanced technology.

## Reliable Engineering Network

Shoden maintains branches throughout the country, and we can therefore provide a one-stop location for all inquiries, from recommendations right through to design and installation, at any of our branches when Shoden services are received from multiple branches. Why not select Shoden to be your business partner on a nationwide scale?



### Techno Center

365 Sannoh-cho, Inage-ku, Chiba 263-0002 Japan  
 TEL: +81-43-422-2111 FAX: +81-43-423-0679

### Narita Factory

808 Kirisaku, Katori, Chiba-Ken 289-0422 Japan  
 TEL: +81-478-78-3333 FAX: +81-478-78-5425

### SC Center

2-23 Ohjima 1-chome, Koto-ku, Tokyo 136-0072 Japan  
 TEL: +81-3-3637-7771 FAX: +81-3-3637-7791

### Osaka Factory

1-60 Tsuneyoshi 1-chome, Konohana-ku, Osaka 554-0052 Japan  
 TEL: +81-6-6460-4180 FAX: +81-6-6460-4182

### Hokkaido Branch

Family Bldg., 1-4 Minami 2-jo Nishi 7-chome, Chuou-ku, Sapporo 060-062 Japan  
 TEL: +81-11-271-6701 FAX: +81-11-271-6729

### Tohoku Branch

Hakuhou Hirose-dori Bldg., 7-18 Kokubuncho 1-chome, Aoba-ku, Sendai 980-0803 Japan  
 TEL: +81-22-222-1401 FAX: +81-22-222-1408

### Nagoya Branch

Dai-14 Ocean Bldg., 23-3 Aoi 3-chome, Higashi-ku, Nagoya 461-0004 Japan  
 TEL: +81-52-936-3311 FAX: +81-52-936-3460

### Hokuriku Branch

Nippon Seimei Toyama Sogawa Bldg., 7-15 Sogawa 1-chome, Toyama 930-0083 Japan  
 TEL: +81-76-431-2011 FAX: +81-76-431-2023

### Osaka Branch

Dojima Grand Bldg., 5-17 Dojima 1-chome, Kita-ku, Osaka 530-0003 Japan  
 TEL: +81-6-6345-3221 FAX: +81-6-6345-3621

### Chugoku Branch

Aioi Sonpo Hiroshima Bldg., 7-2 Otemachi 3-chome, Naka-ku, Hiroshima 730-0051 Japan  
 TEL: +81-82-246-5711 FAX: +81-82-246-0666

### Shikoku Branch

Pacific City Takamatsu Bldg., 1-1-12 Kotobuki-cho, takamatsu 760-0023 Japan  
 TEL: +81-87-821-9231 FAX: +81-87-851-4821

### Kyushu Branch

Denki Bldg., 1-82 Watanabe-dori 2-chome, Chuou-ku, Fukuoka 810-0004 Japan  
 TEL: +81-92-731-0373 FAX: +81-92-714-2439

### Okinawa Branch

G7 Bldg., 2-25 Kumoji 1-chome, Naha900-0015 Japan  
 TEL: +81-98-869-0215 FAX: +81-98-869-1356

### Head Office

3-8 Taihei 4 -chome, Sumida-ku, Tokyo 130-8543 Japan  
 TEL: +81-3-5819-8811 FAX: +81-3-4396-8814



#### Access

- Five minutes walk from exit No.4 of Kinshicho Station on the Tokyo Metro Hanzomon Line.
- Seven minutes walk from the north exit of Kinshicho Station on the JR Sobu Rapid/Local Line.
- 5 minutes from the Komatsugawa Line Kinshicho ramp on the Metropolitan Expressway Route 7.

## Company History

### Oct. 1965:

Established Shoden Corporation in Chiyodaku, Tokyo, started manufacturing and selling power supply equipment for computer electronic communication units, and undertook the related installation and communication work.

### Mar. 1975:

Built a few company building (SC center) at the present site (Koto-ku, Tokyo), and started operation as the head office and Tokyo factory.



### Sep. 1987:

Constructed a new building in Chiba city and started business operation as the techno center for engineering and manufacturing.



### Aug. 1995:

Constructed the Narita factory in Chiba pref, Katori gun Yamada-Machi.



### May. 2000:

Osaka Plant is constructed in Konohana-ku, Osaka.

### Mar. 2004:

Built a new head office, SD Bldg. at Sumida-ku Tokyo.

SC Center was established making use of former head office.



## Business History

### Jan. 1969:

Acquired the sole agent in Japan for the products in the lighting surge arresters division of Siemens AG of Germany

### Oct. 1970:

Developed the earthquake-proof engineering method for duct floor, raised floor, and installed it in the communication machine room of Tokyo Electric Power Co.



### Mar. 1971:

Developed an information transmission circuit switching device, and delivered NO.1 device to a financial agency.

### July 1971:

Qualified as a maker conforming to electric power standard D-205 specified by the Electric Enterprise Federation being organized by electric power companies in Japan.

### Feb. 1984:

Received the "Invention Grand Award" for U-MF type deep buried grounding method from The Japan Society for the Advancement of Invention.



### Apr. 1986:

Concluded a distributor agreement with Dynatech Corporation in USA for matrix switches.

Concluded a distributor agreement with Nokia Data Communications of Finland for modems and TDM.



### May 1986:

Developed an SD type earthquake-proof system and delivered NO.1 unit to Chubu Electric Power Co.

### Nov. 1989:

Received both Ohm Technical Award and Shibusawa Award for the development and diffusion of SD type earthquake-isolation device.



### Sep. 1991:

Delivered SD-2 floor earthquake-isolation system and new OA floor to new Tokyo metropolitan office building.

### July 1995:

Concluded a distributor agreement with Avaya Inc.(Lucent Technologies Inc).USA for digital PBX.



### Aug. 1998:

Corporation agreement with ERICO Lightning Technologies Pty Ltd. , Hobart, Australia.

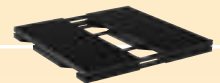
### Oct. 2000:

Awarded the Good Design Award for the development of the Thunder Blocker SPR-TB-100BT-A1.



### Apr. 2005:

Developed the SD-5 Type II Rack-Mounted Seismic Isolator.



### Jan. 2007:

Completed the 200kA Lightning Impulse Current Generator in the Techno Center's experiment wing.



1965

1970

1975

1980

1985

1990

1995

2000

2005

2010

