

Denyo

Building the Future

Diesel Engine-Driven Generators and
Welders for the European Market

Developing
Technology
for Tomorrow's
Power Needs



Denyo



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for Tomorrow's
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Denyo : Making a Difference on Worksites

Worldwide

We use electricity every day, taking it for granted. However, there are a surprising number of situations in which electricity supplied by the power company cannot be used or when there is not enough electricity, such as on construction sites, during disasters, and in developing countries. At such times, we supply as much electricity as is needed, whenever and wherever. And we meet the expectations of customers around the world. Taking this as its mission, Denyo has been working to develop better products ever since its foundation.



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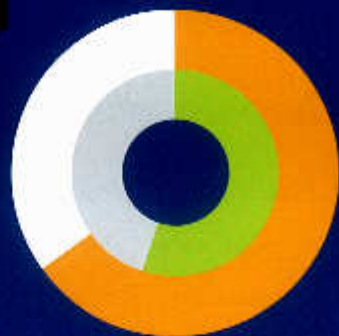
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Denyo's Strengths

01

Market share in Japan for
generators



65%

Market share in Japan for
welders

55%

Boasting a high share of the Japanese market, Denyo is a leading company in outdoor power sources

Since its establishment in 1948, Denyo has firmly created its own technology, including the release of high-performance, engine-driven generators featuring excellent energy savings and the commercialization of Japan's first small, lightweight engine-driven welders, and has launched a succession of products specialized for use in outdoor locations without sources of power. As a result, today Denyo has grown into a leading company in outdoor power sources, with a market share of 65% in Japan for engine-driven generators, our main product, and 55% of the market for engine-driven welders.

02



Accurate sheet metal cutting according to the design



Cation electrodeposition coating for improving product corrosion



Generator assembly process



Engine generator assembly process



Performance testing of products in the examination room

Quality products that come from thorough start-to-finish production from design to product finishing

One reason we can create such high-quality products is our thoroughly integrated production of everything besides the engines, from design and manufacture of machine parts to assembly and finishing. Integrated production also enables us to provide products that truly meet customers' individual needs by rapidly manufacturing made-to-order products.

We carefully manufacture generator coils from a single wire.



Winding of copper wire to the rotor by automatic winding machine



Varnishing of rotors for protection against earthquakes, corrosion and harmful substances

03

130 Countries

Our products are used in 130 countries worldwide.

Featuring excellent reliability and durability, high sound insulation, and supplying quality electricity, Denyo's generators are used not only as power sources on construction sites but also as precious sources of power for daily life in developing countries and sparsely populated deserts, isolated islands, and mountainous areas not reached by electricity. They are also used as power sources for events and as backup power sources in times of disaster and power outages. Thus far, our generators have helped people throughout the world, having been selected in important situations, for example, by customers as the power source for Singapore's Independence Day ceremonies and for reconstruction of the areas affected by the major earthquake in Haiti.



04



We develop environmentally friendly products.

In recent years environmental regulations have become increasingly strict, as countries around the world have become concerned about air pollution and the effects on human health caused by the gases emitted from automobiles and construction machinery. Denyo was quick to work on improving environmental performance and has assembled a line of environmentally friendly engine-driven generators, including DCA-45ESEK, 45USEK, and 125USEI, which have cleared Stage IIIA (the strictest exhaust gas regulation in Europe), and the DCA-US Series (Ultra Silent Series), in which we achieved a low noise level on a par with a quiet office.

Engine-Driven Generators

4-Pole Generators | Soundproof Type |

DCA-25ESEK



DCA-45ESEK



New!

DCA-125ESEI



2-Pole Generators | Soundproof Type |

DA-6000SSEK



4-Pole Generators | Ultra Soundproof Type |

DCA-45USEK



New!

DCA-125USEI



New!

2-POLE TYPE Soundproof

| MODEL | DA-6000SSEK | TLG-18ESEK |
|------------------------|---------------------------------------|------------|
| AC Generator | | |
| Frequency | Hz | 50 |
| Output Rating | Standby | 5.5 |
| | Continuous | 6.1 |
| No. of Poles | 2 | 2 |
| No. of Phases | 1 | 3 |
| Rated Voltage | V | 220 |
| Power Factor (Lagging) | 1 | 0.8 |
| Voltage Regulation | % | Within 6.0 |
| Excitation | Brushless rotating exciter (with AVR) | |
| Insulation | Class F | |

Engine (4-cycle, water-cooled diesel engine)

| Model | Kubota E28 | Kubota D100S-B |
|--------------------|--------------------------------------|----------------|
| Type | Swirl chamber type | |
| Rated Output | kW | 6.5 |
| Rated Speed | min ⁻¹ | 3000 |
| No. of Cylinders | 2 | 3 |
| Bore x Stroke | mm | 67 x 68 |
| Displacement | L | 0.479 |
| Fuel | ASTM No. 2 diesel fuel or equivalent | |
| Fuel Tank Capacity | L | 25 |
| Fuel Consumption | L/h | 1.8 |
| Lube Oil Capacity | L | 2.5 |
| Coolant Capacity | L | 2.75 |
| Battery x Quantity | 12V-45Ah x 1 | 12V-45Ah x 1 |

Dimensions, Weight and Sound Power Level

| Dimensions | Length | mm | 1140 | 1400 |
|-------------------|--------|-----|------|------|
| | Width | mm | 550 | 720 |
| | Height | mm | 795 | 770 |
| Dry Weight | kg | 240 | 437 | |
| Sound Power Level | LWA dB | 87 | 92 | |

4-POLE TYPE Soundproof

| MODEL | DCA-15ESEK | DCA-25ESEK | DCA-35ESEK | DCA-45ESEK | DCA-70ESEI |
|------------------------|---------------------------------------|-------------|-------------|-------------|-------------|
| AC Generator | | | | | |
| Frequency | Hz | 50 | 50 | 50 | 50 |
| Output Rating | Standby | 12.5 | 20 | 30 | 37 |
| | Continuous | 13.8 | 22 | 31.5 | 40.7 |
| No. of Poles | 4 | 4 | 4 | 4 | 4 |
| No. of Phases | 3 | 3 | 3 | 3 | 3 |
| Rated Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| Power Factor (Lagging) | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Voltage Regulation | % | Within +0.5 | | | |
| Excitation | Brushless rotating exciter (with AVR) | | | | |
| Insulation | Class F | | | | |

Engine (4-cycle, water-cooled diesel engine)

| Model | Kubota D1703-E2B | Kubota V2003-E2B | Kubota V3300-E2B | Kubota V3800 | Isuzu 4JJ1X |
|--------------------|--------------------------------------|------------------|------------------|--------------|--------------------------------------|
| Type | Swirl chamber type | | | | Direct injection, turbo-charged type |
| Rated Output | kW | 12.4 | 18.4 | 28.3 | 38 |
| Rated Speed | min ⁻¹ | 1500 | 1500 | 1500 | 1500 |
| No. of Cylinders | 3 | 4 | 4 | 4 | 4 |
| Bore x Stroke | mm | 87 x 92.4 | 87 x 92.4 | 98 x 110 | 100 x 120 |
| Displacement | L | 1.647 | 2.197 | 3.318 | 3.769 |
| Fuel | ASTM No. 2 diesel fuel or equivalent | | | | |
| Fuel Tank Capacity | L | 62 | 62 | 82 | 100 |
| Fuel Consumption | L/h | 2.8 | 3.9 | 5.9 | 6.99 |
| Lube Oil Capacity | L | 5.6 | 7.6 | 13.2 | 13.2 |
| Coolant Capacity | L | 6.4 | 7.9 | 10.5 | 10.9 |
| Battery x Quantity | 12V-65Ah x 1 | 12V-65Ah x 1 | 12V-70Ah x 1 | 12V-70Ah x 1 | 12V-110Ah x 1 |

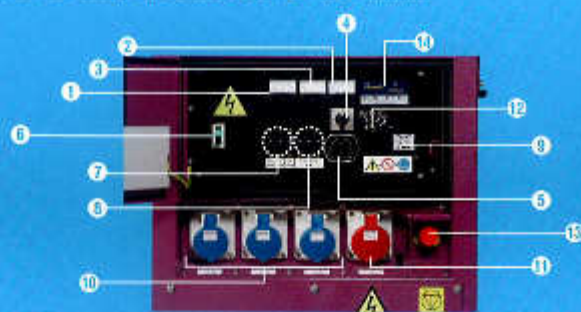
Dimensions, Weight and Sound Power Level

| Dimensions | Length | mm | 1300 | 1540 | 1900 | 1900 | 2400 |
|-------------------|--------|-----|------|------|------|------|------|
| | Width | mm | 650 | 650 | 860 | 860 | 1000 |
| | Height | mm | 1050 | 1050 | 1130 | 1400 | 1550 |
| Dry Weight | kg | 565 | 640 | 950 | 1100 | 1530 | |
| Sound Power Level | LWA dB | 88 | 85 | 89 | 88 | 93 | |

●Continuous output rating applies to operation under standard conditions as per JIS B2014. ●Standby output rating applies to intermittent or emergency operation for approximately 1 hour as per JIS B2014. ●Fuel consumption is based on operation at 75% load. ●Sound level reflects 75% rated load and is calculated by averaging the measurements at four points, each 4 meters from the source. ●Colors of products would be different from printed ones of catalogues. ●Specifications given herein are subject to change without notice.

Control Panel with Outstanding User-Friendliness

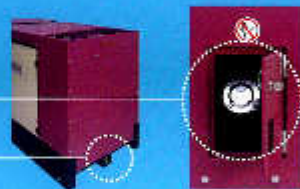
Denyo's generators feature a functional panel layout that can be easily operated even by first-timers.



- ① FREQUENCY METER ② AC AMMETER ③ AC VOLTMETER ④ AMMETER CHANGE OVER SWITCH ⑤ VOLTAGE REGULATOR ⑥ Circuit Breaker (For main) ⑦ CIRCUIT BREAKER (For 1-Phase Receptacle) ⑧ CIRCUIT BREAKER (For 3-Phase Receptacle) ⑨ EARTH LEAKAGE RELAY ⑩ 1-PHASE RECEPTACLE ⑪ 3-PHASE RECEPTACLE ⑫ STARTER SWITCH ⑬ EMERGENCY STOP BUTTON ⑭ ENGINE MONITOR

Consideration for the Global Environment

- Compliant with the EU's exhaust gas regulations (Stage II or Stage III).
- Comes with an environmental base to catch spilled fuel and oil and stop it from leaking out of the generator (accumulated fuel and oil can be discharged through a drain with a single touch).
- The fill opening features a structure that prevents fuel from leaking outside the generator even if it is spilled when fueling.



Excellent Maintainability

Routine maintenance is easy with Denyo's generators. Engine oil, the battery, and coolant are all checked at one location. When conducting repairs or maintenance, the fuel tank comes in and out easily for cleaning by removing the front cover. The radiator can also be cleaned easily.



Consideration for Safety

- Breakers compliant with CE marking.
- Warning lamp indicates on the engine monitor when something is wrong or automatically shuts the engine down.
- Emergency stop button.



Quiet Operation

Noise comparison (7m/m load) Unit: dB(A)



Denyo's generators run quietly thanks to the Company's original soundproofing technology. The Ultra Soundproof Type in particular features a low-noise engine, low-noise fan, the addition of a silencer, and special structures such as changes to the hood shape, which create a low noise level similar to that of a quiet office.

4-POLE TYPE Soundproof

| MODEL | DCA-125ESEI | DCA-180ESEI | DCA-220ESEI | DCA-400ESEI | |
|------------------------|-------------|---------------------------------------|-------------|-------------|--------------|
| AC Generator | | | | | |
| Frequency | Hz | 50 | 50 | 50 | 50 |
| Output Rating | Standby | 100 | 150 | 200 | 350 |
| | Continuous | 71.0 | 105 | 140 | 245 |
| kVA | | | | | |
| No. of Poles | 4 | 4 | 4 | 4 | |
| No. of Phases | 3 | 3 | 3 | 3 | |
| Rated Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 | 380/400/415 |
| Power Factor (Lagging) | | 0.8 | 0.8 | 0.8 | 0.8 |
| Voltage Regulation | % | Within ± 0.5 | | | Within ± 1.0 |
| Excitation | | Brushless rotating exciter (with AVR) | | | |
| Insulation | | Class F | | | |

Engine (4-cycle, water-cooled diesel engine)

| Model | Isuzu 4HK1 | Isuzu 6HK1 | Isuzu 6UZ1 | Isuzu 6WG1 | |
|--------------------|-------------------------------------|--------------------------------------|--|--|---------------|
| Type | Direct injection, turbocharged type | Direct injection, turbocharged type | Direct injection, turbocharged with after cooler | Direct injection, turbocharged with after cooler | |
| Rated Output | kW | 91.6 | 133 | 203 | 309 |
| Rated Speed | min ⁻¹ | 1500 | 1500 | 1500 | 1500 |
| No. of Cylinders | 4 | 6 | 6 | 6 | |
| Bore x Stroke | mm | 115 x 125 | 115 x 125 | 120 x 145 | 147 x 154 |
| Displacement | L | 5.193 | 7.79 | 9.819 | 15.681 |
| Fuel | | ASTM No. 2 diesel fuel or equivalent | | | |
| Fuel Tank Capacity | L | 250 | 300 | 460 | 490 |
| Fuel Consumption | L/h | 17.1 | 24.9 | 33.1 | 57 |
| Lube Oil Capacity | L | 23 | 40.5 | 41 | 55 |
| Coolant Capacity | L | 40.2 | 27.8 | 54 | 60 |
| Battery x Quantity | | 12V-150Ah x 1 | 12V-100Ah x 2 | 12V-150Ah x 2 | 12V-200Ah x 2 |

Dimensions, Weight and Sound Power Level

| Dimensions | Length | mm | 3100 | 3500 | 3790 | 4620 |
|-------------------|--------|------|------|------|------|------|
| | Width | mm | 1140 | 1200 | 1450 | 1450 |
| | Height | mm | 1650 | 1700 | 2000 | 2200 |
| Dry Weight | kg | 2210 | 2760 | 3870 | 5400 | |
| Sound Power Level | LWA/dB | 93 | 95 | 94 | 97 | |

4-POLE TYPE Ultra Soundproof

| MODEL | DCA-25USEI | DCA-45USEI | DCA-125USEI | |
|------------------------|------------|---------------------------------------|-------------|-------------|
| AC Generator | | | | |
| Frequency | Hz | 50 | 50 | 50 |
| Output Rating | Standby | 20 | 37 | 100 |
| | Continuous | 22 | 40.7 | 110 |
| kVA | | | | |
| No. of Poles | 4 | 4 | 4 | |
| No. of Phases | 3 | 3 | 3 | |
| Rated Voltage | V | 380/400/415 | 380/400/415 | 380/400/415 |
| Power Factor (Lagging) | | 0.8 | 0.8 | 0.8 |
| Voltage Regulation | % | Within ± 0.5 | | |
| Excitation | | Brushless rotating exciter (with AVR) | | |
| Insulation | | Class F | | |

Engine (4-cycle, water-cooled diesel engine)

| Model | Isuzu BV-4LE2 | Kubota V3800 | Isuzu 4HK1 | |
|--------------------|-----------------------|--|--|---------------|
| Type | Direct injection type | Direct injection, turbocharged, cooled EGR | Direct injection, turbocharged with after cooler | |
| Rated Output | kW | 19.1 | 38 | 96.3 |
| Rated Speed | min ⁻¹ | 1500 | 1500 | 1500 |
| No. of Cylinders | 4 | 4 | 4 | |
| Bore x Stroke | mm | 85 x 96 | 100 x 120 | 115 x 125 |
| Displacement | L | 2.179 | 3.769 | 5.193 |
| Fuel | | ASTM No. 2 diesel fuel or equivalent | | |
| Fuel Tank Capacity | L | 92 | 170 | 250 |
| Fuel Consumption | L/h | 3.5 | 6.74 | 16.7 |
| Lube Oil Capacity | L | 8.5 | 13.2 | 20.5 |
| Coolant Capacity | L | 6.4 | 9.4 | 22 |
| Battery x Quantity | | 12V-65Ah x 1 | 12V-70Ah x 1 | 12V-150Ah x 1 |

Dimensions, Weight and Sound Power Level

| Dimensions | Length | mm | 1770 | 2010 | 3050 |
|-------------------|--------|-----|------|------|------|
| | Width | mm | 790 | 950 | 1240 |
| | Height | mm | 1170 | 1470 | 1800 |
| Dry Weight | kg | 785 | 1200 | 2460 | |
| Sound Power Level | LWA/dB | 80 | 80 | 87 | |

● Continuous output rating applies to operation under standard conditions as per JIS B8014. ● Standby output rating applies to intermittent or emergency operation for approximately 1 hour as per JIS B8014. ● Fuel consumption is based on operation at 75% load. ● Sound level reflects 75% rated load and is calculated by averaging the measurements at four points, each 4 meters from the source. ● Colors of products would be different from printed ones of catalogues. ● Specifications given herein are subject to change without notice.

Engine-Driven Welders

Praised for their stable welding performance with little reduction in voltage as a result of their durability and drooping characteristic, Denyo's engine-driven welders are found in use in countries throughout the world. They can even be used as high-performance engine-driven generators. Equipped with idle-control systems that reduce fuel consumption, Denyo's welders provide excellent economic efficiency.

DAW-300SSEK



DLW-300ESEW



Exceptional Welding Performance

- A built-in high-performance generator ensures a stable supply of welding current. This enables outstanding welding performance with an extremely long arc and little arc interruption with the welding electrode.
- The Arc Force Regulator allows users to adjust the short cut current according to the application (excluding the DAW-300SSEK).

"Soft": Enables smooth vertical and pipe welding.
"Hard": Enables a smooth arc start.



Economic Efficiency

Fuel consumption can be reduced with e-mode, which controls engine revolutions, making them more efficient.

DAW-300SSEK

DAW-300SSEK is a non-stop automatic control with a microcomputer that assures optimum engine revolutions, under any load conditions, with slow-down (low-speed) revolutions.



DLW-300ESEW, 400ESEW

When welding work starts or the equipped AC Generator starts to operate, the welder works at high-speed mode, and when the unloaded condition of current is applied, the machine operates at low-speed mode.

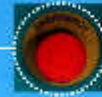


Environmentally Friendly

- Equipped with environmentally friendly clean engines, Denyo's welders are compliant with the EU's exhaust gas regulations (Stage II).

Safety

- Equipped with an emergency stop button
- Equipped with an earth leakage relay
- A warning lamp notifies users when an abnormality has occurred (drop in oil pressure, rise in water temperature, poor battery charge).



Maintainability

- Denyo's welders provide "one-side maintenance" in which daily checks and maintenance can be performed just by opening a single door.



| MODEL | DAW-300SSEK | | DLW-300ESEW | | DLW-400ESEW | |
|---|----------------------------|-------------------|--|------------------|----------------------|------------------|
| | | | Full range Operation | e-mode Operation | Full-range Operation | e-mode Operation |
| DC Welding Output | | | | | | |
| Rated Output | kW | | 8.74 | 4.22 | 10.96 | 7.1 |
| Rated Current | Single | A | 280 | 160 | 330 | 240 |
| | Dual | A | - | 80 | 165 | 170 |
| Rated Voltage | Single | V | 31.2 | 26.4 | 33.2 | 23.6 |
| | Dual | V | - | 25.2 | 26.6 | 24.8 |
| Current Range | Single | A | 30 ~ 300 (2200 ~ 3000min ⁻¹) | 60 ~ 280 | 60 ~ 380 | 60 ~ 240 |
| | Dual | A | - | 20 ~ 140 | 30 ~ 190 | 50 ~ 120 |
| Rated Speed | Single | min ⁻¹ | 3000 | 2200 | 3000 | 2200 |
| | Dual | min ⁻¹ | - | 3000 | 3000 | 2700 |
| Rated Duty Cycle | Single | % | 50 | 100 | 60 | 100 |
| | Dual | % | - | 50 | 60 | 100 |
| Applicable Electrode | Single | mm | 2.0 ~ 6.0 | 2.0 ~ 6.0 | 2.0 ~ 6.0 | 2.0 ~ 5.0 |
| | Dual | mm | - | 2.0 ~ 3.2 | 2.0 ~ 4.0 | 2.0 ~ 3.2 |
| 3-Phase AC Power Output | | | | | | |
| Rated Output | kVA | | - | 9.9 | - | 13.2 |
| Rated Voltage | V | | - | 380 | - | 380 |
| Rated Current | A | | - | 15 | - | 20 |
| Rated Speed | min ⁻¹ | | - | - | 3000 | |
| Frequency | Hz | | - | - | 50 | |
| Power Factor | | | - | - | 0.8 | |
| Rating | | | - | - | Continuous | |
| 1-Phase AC Power Output | | | | | | |
| Rated Output | kVA | | 3 | | 3.3 × 2 | |
| Rated Voltage | V | | 220 | | 220 | |
| Rated Current | A | | 13.6 | | 15 × 2 | |
| Frequency | Hz | | 50 | | 50 | |
| Power Factor | | | 1 | | 1 | |
| Rating | | | Continuous | | Continuous | |
| Engine (4-cycle, water-cooled diesel engine) | | | | | | |
| MODEL | Kubota D722 | | Kubota D905 | | Kubota D1005 | |
| Type | | | Vertical, 4-cyls, water-cooled diesel engine, swirl chamber type | | | |
| Rated Output | kW | | 11.7 | | 14.7 | |
| Rated Speed | min ⁻¹ | | 3000 | | 3000 | |
| No. of Cylinders Bore x Stroke | mm | | 3-67 × 68 | | 3-76 × 73.6 | |
| Displacement | L | | 0.719 | | 0.898 | |
| Fuel | | | ASTM No. 2 diesel fuel or equivalent | | | |
| Fuel Tank Capacity | L | | 19 | | 36 | |
| Fuel Consumption | L | | 2.1 | | 2.33 | |
| Lube Oil Capacity | L | | 3.76 | | 5.1 | |
| Coolant Capacity | L | | 3.8 | | 4.7 | |
| Battery x Quantity | | | 12V-45Ah x 1 (55B24L) | | | |
| Dimensions, Weight and Sound Power Level | | | | | | |
| Dimensions | Length x Width x Height mm | | 1270 x 680 x 740 | | 1410 x 680 x 770 | |
| Dry Weight | kg | | 310 | | 415 | |
| Sound Power Level | LWA dB | | 90 | | 89 | |

● Rated welding load at rated duty cycle. e-mode data is calculated by rated duty cycle at full-range operation. ● Sound level reflects 75% rated load and is calculated by averaging the measurements at four points, each 4 meters from the source.

Global Network

Denyo Group



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The Netherlands



Denyo Vietnam Co., Ltd.
Plot A3, Thang Long Industrial Park II,
Yen My District, Hung Yen province, Vietnam



Denyo United Machinery Pte. Ltd.
Denyo Asia Pte. Ltd.
27 Pioneer Sector 1, Jurong,
Singapore 628433

Corporate Information

Company Outline



Denyo Head Office, Tokyo, Japan

Company Name

Denyo Co., Ltd.

Representative

Shigeru Koga, President

Established

July 2, 1948

Head Office

2-8-5, Nihonbashi-horidomecho, Chuo-ku, Tokyo 103-8566, Japan

Paid-in Capital

¥1,954 million

Fiscal Year-End

March 31

Plants

Fukui and Shiga, Japan

Number of Issued Shares

25,359 thousand

Business Lines

Manufacture and sales of engine-driven generators, welders,
air compressors and other special machinery



P.T. Dein Prima Generator
 JL. Raya Bekasi Km. 28, Medan Satria,
 Bekasi 17132 Jawa Barat, Indonesia



Denyo America Corporation
Denyo Manufacturing Corporation
 1450 Minor Road, Danville,
 Kentucky, 40422 U.S.A.

Brief History

- July 1948 Established Japan Power Welding Machine Co., Ltd.
- March 1959 Developed and manufactured high-speed engine-driven welders
- December 1961 Began to manufacture engine-driven generators
- February 1966 Developed sound-proof generators and began production of sound-proof engine-driven generators and welders
- July 1966 Changed the corporate name to Denyo Co., Ltd.
- July 1970 Completed construction on the Shiga Plant
- March 1976 Established a joint venture, P.T. Denyo Indonesia
- April 1976 Completed construction on the Fukui Plant
- February 1983 Denyo was listed on the Second Section of the Tokyo Stock Exchange
- December 1992 Established a U.S. subsidiary, Denyo America Corporation
- August 1995 Established a joint venture, Denyo Manufacturing Corporation in the United States
- December 1997 Received ISO 9001 certification for the Fukui Plant
- March 2000 Listed on the First Section of the Tokyo Stock Exchange
- July 2000 Established a Singapore subsidiary, Denyo Asia Pte. Ltd.
- December 2006 Moved its head office to Nihonbashi-horidomecho in Tokyo
- October 2007 Established Denyo Europe B.V. in the Netherlands
- July 2009 Merged with Denyo Techno Services Co., Ltd. and Denyo Trading Co., Ltd.
- May 2010 Established a Vietnamese subsidiary, Denyo Vietnam Co., Ltd.

 **Denyo Europe B.V.**

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