

## Taguchi Industry Inc.

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<https://taguchi-kogyo.com>

The future begins underground.

 Taguchi Industry Inc.



We've successfully expanded underground.

Now, on to the future!

## History

- 1948** Fukuoka Abrasive Mfg. founded by Kazuyuki Taguchi in Kawaguchi-cho, Fukuoka to manufacture and sell abrasives
- 1952** Factory built in Shingu-machi, Kasuya District, Fukuoka
- 1961** Tokyo Office opens in Hiroo, Shibuya-ku, Tokyo
- 1964** Head Office built in current location
- 1968** Taguchi shaft tower installed as Enasan Tunnel ventilation tower (reused unneeded coal-mining equipment in construction)
- 1968** Reorganized as a stock company; name changed to Taguchi Industry Inc.
- 1973** Sasebo Factory opens in Sechibaru-cho, Nagasaki (run by subsidiary Hatten Kogyo Co., Ltd.)
- 1980** Capital: ¥20 mil.
- 1985** Tokyo Office expanded and moved to Shinbashi, Minato-ku
- 1989** Japan's first inclined construction equipment (automatic water-level controller) delivered to Banba Dam
- 1991** Caisson elevator (aerial work platform) developed
- 1992** Largest shaft equipment in Japan delivered for construction of Daini Hanna central shaft (11 x 481 m)
- 1995** Issei Taguchi named President & CEO
- 1996** Development of the NATM continuous belt conveyor system starts
- 1997** Japan's first blasting-debris continuous belt conveyor system delivered to Kyushu Shinkansen Tagami Tunnel
- 2000** Capital: ¥40 mil.
- 2000** Curved U-turn continuous belt conveyor system developed
- 2000** First continuous belt conveyor system delivered for debris in Nagoya Municipal Subway shield construction
- 2002** Japan's first curved U-turn continuous belt conveyor system delivered to Daini Tomei Shimizu Tunnel 4
- 2004** Ventilation shaft equipment for Mizunami Underground Research Tunnel excavation delivered (5 x 1000 m)
- 2005** Capital: ¥80 mil.
- 2007** Shaft equipment delivered for Horonobe Underground Research Tunnel excavation (6 x 500 m)
- 2008** Continuous belt conveyor delivered for Central Circular Shinagawa Rte. (8000 m) shield
- 2009** Continuous belt conveyor delivered for Tohoku-Chuo Expwy. Kuriko Tunnel (9000 m)
- 2011** Continuous belt conveyor torsion equipment delivered for City Planning Rd. Yamatogawa Rte. shield
- 2014** Continuous belt conveyors delivered to 100 sites

## Corporate Philosophy

When the energy revolution of the 1960s forced coal mines to close, the Taguchi shaft tower, the Company's cornerstone, converted mineshaft equipment for public works. The Company policy of thinking from a different perspective to boldly take on unprecedented methods and products is part of our DNA.

A significant turning point for us was the development of the continuous belt conveyor system, started in 1996. Used in the Kyushu Shinkansen Tagami Tunnel in 1997, it amazed with its astounding efficiency, great safety, and eco-friendliness. Word of the results spread between sites. It was nothing flashy, but the new method spread steadily throughout Japan. Yesterday's amazement became today's standard. Continuous belt conveyor systems were recognized as a new given for sediment transport in tunnel construction.

Their underground use drew attention as vital for new infrastructure and traffic reduction in cities like Tokyo and Yokohama. The Company's accumulated technical data and expertise in site eco-friendliness also demonstrate value in city engineering.

Like a seed expanding roots underground, we will be the first to focus on new technology, growing it into tomorrow's standard. Our stance on technological development will not change. Taguchi Industry has always thought of the future from underground. We hope you'll look forward to our next ideas.



The possibilities of the expanding conveyor to shorten construction time and the curved conveyor to broaden city engineering.

From the seed of an idea, the future becomes fact.



## Product Guide

### Continuous belt conveyor systems

Until 1997, dump trucks removed sediment from tunnel construction. Taguchi Industry's expanding conveyor shook up this custom. The revolutionary idea of a belt conveyor that elongates as excavation progresses shortened construction time. The clean shaft environment and safety advantages also gained attention. This new method continues to progress steadily since its creation.

The curved conveyor was developed in 2000, with a 30m smallest curve radius. U-turns become possible with a 60 m width. By gaining flexibility for use in various sites, it has made recent inroads in city engineering.



#### ■ 600-mm-wide belt conveyor

Reduced storage length for a more compact belt. A future increase of these will contribute to construction in small yards, like in city engineering.



#### ■ 750-mm-wide belt conveyor

Placed at shaft crusher and tail piece. This site was rated highly for requested cleanliness around the shaft and safety.



#### ■ 900-mm-wide belt conveyor

Construction was completed without incident at a challenging site with a total space of 8000 m (smallest radius 230 m, total radius 3000 m).



#### ■ 1050-mm-wide belt conveyor

We installed our first 1050-mm-wide conveyor, substantially improving sediment transport. The length of the belt conveyor machine boasts 8000 m.



# Hopes are once more set on shaft-equipment-making Taguchi Industry.



## Product Guide Shaft equipment, etc.

Our shaft equipment was also used to build the water-sealed underground Natl. LPG Stockpiling Base, a forward-looking project on the national level to stably supply LPG.

Our technology has also received attention for building storage facilities for used nuclear fuel, a challenge for the future.

The shaft equipment will be enlarged soon. To prepare for these societal needs, we will use our track record and site experience to continue and advance shaft technology.



Inclined equipment with a maximum 30 t capacity, for steep terrain.



Jumbo inclined-shaft cart equipment for a 50° rail slope.



Construction installation for the Natl. LPG Stockpiling Base.

### A varied product line created through flexible thinking.

#### ■ Inclined shaft equipment

Our shaft equipment is widening carts equipped with face rock drills, shaft loaders, and charging cages. They achieve a 48° incline and are used in construction of hydraulic steel pipes for hydroelectric power.

#### ■ Inclined equipment

Designed to automatically change incline 25-45° (actual results) using a hydraulic jack on the entire surface.

#### ■ Hydraulic-pressure-regulating water pipe scaffold equipment

We also have expertise in water pipe scaffold equipment that regulates hydraulic pressure in upper and lower dams.





Reliable technical prowess,  
proven onsite.



## Introduction Example

Anxiety over new technology is unavoidable. Taguchi Industry believes that dispelling this anxiety is also a pioneer's important job. To prove the excellence and safety of the new technology we trust, we chose actions, not words. We have worked hard at every site to thoroughly respond to even the smallest questions and requests. In this way, we have slowly but steadily built trust in Japan. The proof is in our many construction achievements. Please have a look at our track record of progress. We are proud of it.



### Continuous belt conveyor systems

Site	Length(m)	Clients	Joint venture
Kyushu Shinkansen Tagami Tunnel, Yatsushiro-Nishi Kagoshima (NATM / blasting)	4800	JRTT	Taisei / Toa / Chizaki
Miwa Tunnel (NATM / blasting)	4300	Chubu Regional Dev. Bureau	Obayashi / Konoike
Tohoku Shinkansen Hakkoda Tunnel (Otsubo) (NATM / blasting)	4000	JRTT	Kajima / Toda / Magara / Hozumi
Daini Tomei Expwy. Shimizu Tunnel 4 (TBM)	3900	JH	Obayashi / Mitsui / Konoike
Kyushu Shinkansen Kagoshima Rte. Chikushi Tunnel (NATM / blasting)	3080	JRTT	Taisei / Tokura / Ohki / Matsumoto
Hachioji Castle Ruins Tunnel overline (R.TBE)	3310	MLIT	Taisei / Shimizu / Zenitaka
Tohoku-Chuo Expwy. Kuriko Tunnel eastern evacuation tunnel (TBM)	5400	JH	Tekken / Asanuma
Chofu Stn. Continuous Flyway Area 2 Keio Fuda (shield)	1700	Keio	Obayashi / Keio / Maeda / Konoike
Chubu-Sangaku Hayakawa-cho horizontal-boring work-pit excavation (NATM / blasting)	2000	JR Central	Taisei / Meiko / Zenitaka
Central Circular Shinagawa Rte. shield tunnel (shield)	8000	Shuto Expwy.	Kajima / Kumagai / Penta-Ocean
Hokkaido Shinkansen Tsugaru Yomogita Tunnel (SENS)	6000	JRTT	Kajima/Tekken/Umebayashi/Tanaka
Yamanashi Maglev Test Truck Misaka Tunnel (NATM / blasting)	2200	JRTT	Tekken / Tokyu / Rinkai Nissan
Kyushu Shinkansen Tawarazaka Tunnel (NATM / machine excavation)	3030	JRTT	Maeda / Matsuo / Shimo
Central Circular Shinagawa Rte. shield tunnel (shield)	8000	Tokyo	Taisei / Daiho / Zenitaka
Koshiyama Dam Sediment Bypass Tunnel (NATM / blasting)	4000	Chubu Regional Dev. Bureau	Taisei
Tohoku-Chuo Expwy. Kuriko Tunnel (NATM / blasting)	5150	Tohoku Regional Dev. Bureau	Shimizu / Daiho
City Planning Rd. Yamatogawa shield	2000	Osaka Pref.	Daitetsu / Yoshida / Mori / Kamitani
Furukawa Underground Detention Basin Azabu shield	3300	Tokyo Construction Bureau	Tobishima / Totetsu Kogyo / Novac
City Planning Rd. Yamatogawa Rte. shield	4000	Hanshin Expwy.	Kajima / Tobishima
Shin-Meishin Expwy. Mino Tunnel East (NATM / blasting)	2000	NEXCO West	Taisei

### Shaft equipment

Site	Clients	Joint venture
Daini Hanna central shaft	Osaka Road Corp.	Shimizu / Mitsui / JDC / Takenaka Civil Engineering & Construction
Kazunogawa Power Stn.	TEPCO	Nishimatsu / Chizaki
Happusan Tunnel	JH	Aoki Construction
Kanden Kokubun Toshi	KEPCO	Konoike / Obayashi / Nishimatsu / Tokyu
Omarugawa Power Stn. (surge tank)	Kyuden	Hazama / Kumagai / Tobishima / Tekken
Mino Tunnel	Osaka Road Corp.	Kajima / Taisei
Mizunami Underground Research Lab	JNC	Shimizu / Kajima / Maeda
Namikata Base propane tank	JOGMEC	Taisei / Toda / Sumitomo Mitsui
Namikata butane tank	Japan LP Gas Stockpiling	Obayashi / Tobishima / Konoike
Kyogoku Power Stn. new engineering	HEPCO	Sato Kogyo
Horonobe Underground Research Center excavation	JNC	Taisei / Obayashi / Sumitomo Mitsui
Kuji Natl. Oil Stockpiling Base	Iwate Pref.	Morimoto

### Inclined shaft equipment

Site	Clients	Joint venture
Kazunogawa Power Stn.	TEPCO	Okumura / Zenitaka
Kazunogawa Power Stn.	TEPCO	Aoki Construction
Okutataragi Power Stn.	KEPCO	Kajima / Sato / Kanzaki
Okutataragi Power Stn.	KEPCO	Hazama / Ohshiro / Kinki Concrete / Meisei
Omarugawa Power Stn.	Kyuden	Hazama / Shida / Kakihara
Omarugawa Power Stn.	Kyuden	Okumura / Sato / Daiho / Asanuma
Tokuyama Power Stn.	Chuden	Kumagai / Taisei / C-Tech / Seino

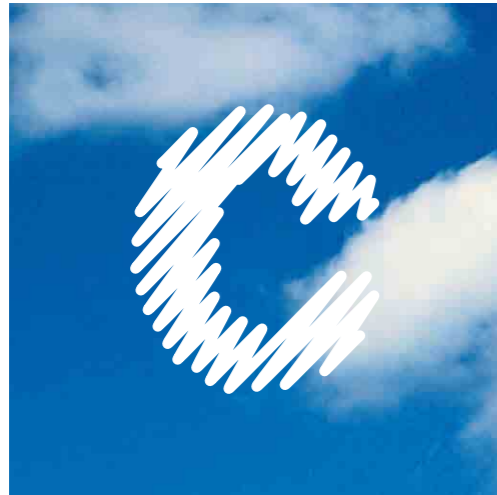
### Elevator equipment

Site	Clients	Joint venture
Sendai LNG	JNOC	Obayashi
MM Motomachi	Yokohama	Kumagai / Aoki / Toyo / Aisawa / Obayashi
Chiba Thermal Power Stn.	TEPCO	Tobishima / Taisei
Hiroshima Gas LNG	Hiroshima Gas	Obayashi / Kajima / Shimizu
Midorihamma	Toho Gas	Obayashi

### Inclined equipment

Site	Clients	Joint venture
Kyoto Jukan Expwy.	Kyoto Road Corp.	Fujita / Sumitomo / KCON
Higashi Kyushu Expwy.	JH	DNC / Seibu Construction
Mabechigawa Power Stn.	JRTT	Fujita / Arai / Ryowa
Omarugawa Power Stn.	Kyuden	Kyutetsu
Hiroshima Airport Br.	Hiroshima Pref.	Kajima / Chizaki / Sanyo
Soshi Tunnel	Hokkaido Regional Dev. Bureau	Kajima
Shonokawa Br.	NEXCO Central	Taisei
Arase Dam	Kagoshima Pref.	Maeda / Shimizu / Sato BENEC
Marutaki Tunnel	MLIT	Nishimatsu





## Corporate Profile

It has been over 10 years since the development of Japan's first curved U-turn continuous belt conveyor system allowed more sites to experience the benefits of continuous belt conveyors, contributing to improved safety in tunnel construction and environmental preservation. This system was installed in more than 100 tunnel excavation sites throughout Japan. We are grateful for customers' kind understanding of our suggestions.

Looking to the future, we are aiming for a new Japan and advancing various big projects including Tokyo and Yokohama's underground infrastructure and the Nagasaki, Hokuriku, Hokkaido, and Chuo shinkansen lines. We are confident that our technology will be useful for effectively and safely driving these projects to build Japan's future. You can count on our refined technology and expertise now that urban sites are increasing.

President & CEO  
Taguchi Industry Inc. / Hatten Kogyo Co., Ltd.

田口一生

Roots of trust run deep;  
future ambitions reach high.



"Baisei Baishin" Sell honesty to buy trust.

"Baisei Baishin" is written large on our President's wall. It was founder Kazuyuki Taguchi's favorite saying. He constantly repeated, "Business starts with selling your honesty to buy trust." The phrase is written in calligraphy by former Kyuden president Kiyoshi Kawarabashi. It has been impressed on our employees as the company policy for 40 years.



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Founded
July 1948
Incorporated
March 1968
Capital
¥80 mil.
President & CEO
Issei Taguchi
Business description
Machine installation, electrical work, steel construction, painting, architecture
Main clients
Kajima Corp., Taisei Corp., Shimizu Corp., Obayashi Corp., Maeda Corp., Nishimatsu Construction, Tobishima Corp., Tekken Corp., Hazama Ando Corp., Okumura Corp., Kumagai Co., Toda Corp., Sumitomo Mitsui, Konoike Construction CO., etc.
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