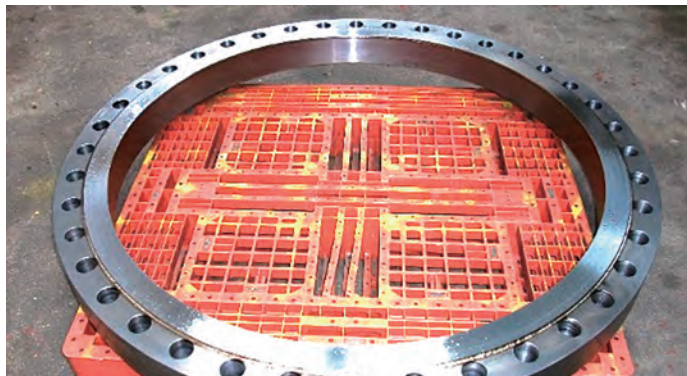


# Touwa Kogyo K.K.



Achieving mass production with short delivery times through advanced technological capabilities and mobility: Shikoku's sole master of flange manufacturing technologies, equipped with multiple strengths, including creatively original development capabilities

Category Wind Turbine Manufacturing > Flanges



## Integrated in-house manufacturing of flanges, from standardized items to specialty products

The only company in Shikoku manufacturing a range of flanges through integrated in-house production. Chiefly manufacturing steel flanges, Touwa Kogyo handles the production of the majority of standardized items produced in Japan. The quality of the company's flanges, carefully produced with rigorous inspections at each stage, clearly distinguishes them from products made overseas. Applying advanced technologies to create products with high precision, while at the same time aiming to achieve greater efficiency and lower costs, the company realizes mass production and short delivery times as well. Touwa Kogyo ensures high productivity with the use of a large 1,000-t press, one of the largest in the industry, to punch flanges from steel plates.

In addition, in 2024, the company introduced robots to its factory facilities, creating a fully automated system with 24-hour operations. The company has strengthened its mass production capabilities by automating a series of processes, from material procurement to product completion, including inspections. Meanwhile, the company is also equipped to manufacture one-of-a-kind products meeting individual specifications requested by customers. Touwa Kogyo has accumulated extensive technologies and expertise concerning cutting, forging, melting, bending, and more, offering proposals optimized to meet all manner of customer demands involving everything from product specifications to delivery dates while ensuring the provision of highly reliable products.

Flanges the company can manufacture: Steel flanges, NOS flanges, cut flanges, vacuum flanges, high-pressure flanges, lining flanges, jacket flanges, and expandable/contractible pipe couplers

### Adoption Record

#### Integrated NOS flange preventing welding distortion



The NOS flange developed by Touwa Kogyo is a forged structure with an integrated flange and a single pipe. Requiring no welding enables the avoidance of problems caused by thermal distortion. Used by many paper companies in Japan, it prevents the leakage and buildup of solvents in piping, offering the advantages of realizing production line stability and reducing componentry costs at the same time.

#### Conveyor rollers offering reduced costs and long service lives



Touwa Kogyo applied its flange manufacturing technologies to develop a new belt conveyor roller in collaboration with an LP gas cylinder manufacturer (Hagio Koatsu Yoki Co., Ltd.) The roller's shaft bearing section features an integrated structure with a press-formed metal cover creating an airtight seal to achieve a cost reduction of approximately 30% and doubled product service life. The company obtained a design registration for the product, as well as both domestic and international patents.

### Main Equipment and Machinery

- 1000t Lever Press: MANYO brand / 2 units
- Shearing Machine: Kansai Tekko Co. 4000W x 28t / 1 unit
- CNC Lathe with Robot: TAKISAWA TT-2100G, DAIHEN FD-V20 / 1 unit each
- NC Lathes: 6 units ● NC Machining Centers: 2 units
- Radial Drilling Machine: 2 units ● Multi-Axis Drilling Machines: 4 units
- Single-Purpose Lathes: 12 units
- Universal Lathes: Chuck diameter  $\phi$ 200- $\phi$ 2000 / 10 units

### Company Information

Business: Manufacture of various types of flanges  
 Location: 2-7-38 Nishihara-cho, Niihama, Ehime Prefecture, 792-0011  
 Established: June 1969 Capital: 10 million yen Employees: 38  
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