

KYOWASEIKO CORPORATE PROFILE

In order to progress, we considers daring to stop.



Brake Development and manufacture

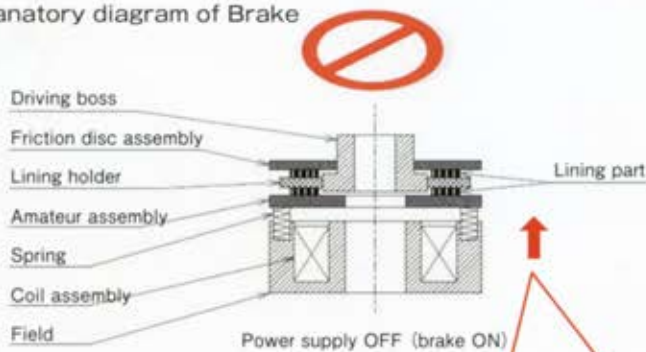
- ① A various kind and few job lot manufacturing
- ② Quick custom-made development and a reliability test
- ③ Own developed equipment for Assembling line

In order to get a customer to use a product in comfort, we pursued the foundations of craftsmanship, fixed it and have succeeded. Our true heart is also contained in it.

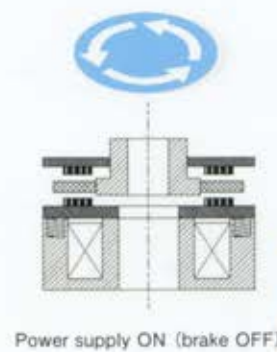


Development of a general brake and a silent brake and a non backlash brake

Explanatory diagram of Brake



An amateur assembly is pushed up by a spring, a lining holder is rubbed in a lining part, and, as a result, brakes is applied to the axis



Magnetic force exceeds spring force, magnetized amateur assembly is drawn on the field, and the axis becomes free from a lining holder.

Main uses

For AC servo motor, industrial robots, a snowplow, an electric wheelchair, a medical equipment, and airplanes.



Servo Motor



Robot



Electric wheelchair



Medical equipment

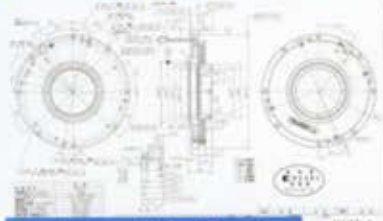
Design



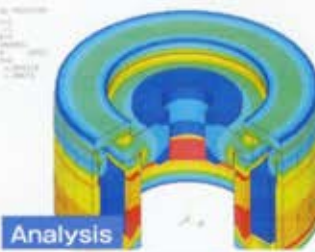
Design



design review



Design and Verification



Analysis



All the sections participated DR

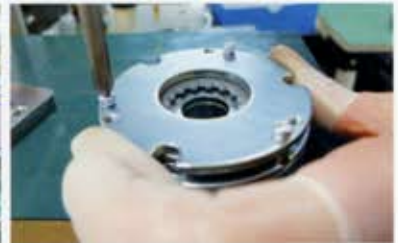
part processing



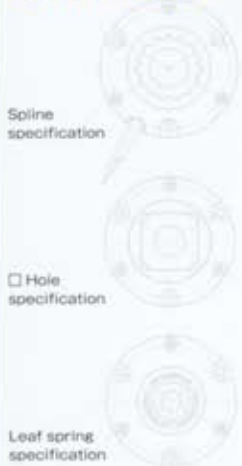
own developed assembling equipment



assembling



completion



Specification



Type	KS-30 Type		KS-50 Type		KS-70 Type	
Shape of Driving boss	splines / □ hole / leaf		←		←	
Friction material of Lining	Resin base					
Brake Torque (Nm)	0.05	0.1~0.3	0.2~0.3	0.3~1.5	1.2	1.2~2.4
Voltage (V)	12/24/90		←		←	
Power Consumption (W)	3.6	6	5	8	6	8
Insulation Class	B/F/H		←		←	
Function	Hold		←		←	
Size (nominal value)	30		50		70	
Applicable Motor	□40		□60		□80	
Outer Diameter (φ A)	27	35	48	53	68	70
P.C.D(B)	23	31	43	46	62	62
Inner Diameter (φ C)	6	9	6	15	31	19
Length (D)	22	20~30	15	16~30	25	20~28
Field Length (E)	16	12~22	10	8~22	16	11~22
Lead Position (F)	upper end / central part of Field		upper end / central part / and bottom of Field		←	
* Note	Above is a typical specification value and can also be changed by a customer's demand.					

Human Power

Man's possibility is always wonderful.

Processing of a precision components

- ① Trial production time for delivery : Five days delivery and small-lot production are possible.
- ② Realize budget prices by adoption of exclusive equipment and concentration of some processes.
- ③ Stable and high quality processing without needing the finishing process



Without being content with the present situation, we pursue a better quality assurance and manufacturing efficiency, and is continuing improving.



The 1st factory



The 2nd factory



The 3rd factory

Assembling

A one set contract of a product is possible at the manufacturing technique cultivated by processing equipment of parts and manufacture of the brake.



We have the capability to embody a customer's request, and the capability to commercialize the newest technology of the time.



And we also challenge a new field using the manufacturing techniques cultivated by manufacture of part processing equipment and a brake.

Human Power

"Let's make this company into a good company" as our slogan!



General Director
Masanori Hori

Our company is doing corporate activity at the Nagano-Ina Valley located at the foot of mountain in Minami-Alps Range with beautiful natural environment. Every employee is striving for corporate activity with the generous heart born according to such natural environment and with the patience against the natural severity. This company is continuing growing up always at the manufacturing the product trusted by the customers and doing its best in improvement of quality and service everyday. The basis of our company's business are high precision processing technology and assembling technology, moreover, we believe that our mission is to continue commercializing the customer's needs promptly in the idea with the outstanding creativity. We have completed a slim and tough business structure through daily steady improvement activities, and challenge to anything aggressively aiming at much more improvement in service.

We aim at an independence company with lively brightness.

We aim at the company to be trusted by the customers.

We offer the quality, the speed, the price, and the technology which are trusted.

We aim at the growth as a person.

We aim at the employee with brightness trusted by the area, the family, and the coworker.

We value mutual "quiet relation" with others, and fine teamwork.

We aim at establishment of excellent goods as a KYOWA SEIKO brand.

We offer the product in which the other company cannot catch up about a spring actuated actuation brake and other products. We challenge processing of a high level parts. We aim at the company which performs consistent production from processing of parts to assembling of finished goods.



Hot-Circle(QC Circle) Activities



Improvement Proposal Activities



5S Activity (Patrol)



Eco-Action 21 Activity

Corporate Summary

Name : KYOWA SEKO Co., Ltd.
Founded : July, 1966
Capital : 35 million yen
Employee : 120 persons
Home Page <http://www.kyowaseiko.jp>

History

- October, 1964 : Gonei Miyawaki founded a limited company as KYOWA SEIKO. Manufacturing and selling of a machined part and jigs & tools was started.
- July, 1966 : Reorganization of the company was carried out and it became incorporated company KYOWA SEIKO. Processing and assembling of automatic control apparatus was started.
- April, 1970 : Head office was moved to 1514-1, Shimoichida, Takamori-machi, Shimoina-gun.
- April, 1973 : Manufacture of an electromagnetic micro clutch and a spring actuated brake was started.
- July, 1988 : Hirokazu Miyawaki was inaugurated into the president and representative director.
- August, 1988 : The company acquired the Yamabuki factory and an operation was started. Machining equipment and work of the parts for a machine tool, a semiconductor and liquid crystal manufacture equipment, laborsaving apparatus and aircrafts were moved to the Yamabuki factory.
- August, 1995 : The company rented the next door building of the Yamabuki factory, and started operation as the 2nd factory of Yamabuki after extension.
- March, 2000 : Masanori Hori was inaugurated into the president and representative director.
- February, 2003 : In order to increase the production of the clutch for cars, an assembling line was started in the Yamabuki factory.
- May, 2004 : The capital of 9 million yen was increased and it became 35 million yen. Manufacturing and selling was completely started for the spring actuated brake products as KYOWA SEIKO brand.
- November, 2004 : ISO 9001 certification was acquired.
- January, 2007 : We entered into the field of part processing for medical equipment newly.
- February, 2007 : A part of assembling line at a head office factory was moved to the Yamabuki factory, and the General Affair Section was moved simultaneously.
- March, 2010 : Eco-Action 21 certification was acquired.
- January, 2011 : The company rented the next door building of the Yamabuki factory, and started operation as Yamabuki 3rd factory after extension.
- August, 2011 : The machine-processing department at head office factory was moved to the Yamabuki factory.
- April, 2012 : Disaster prevention apparatus-related business was started.

Handling products and its use

- Spring actuated brake
For robots, automation machine, the medical equipment, the wheelchair, etc.
- Processing of precision-instruments part
Medical equipment parts / Semiconductor manufacture apparatus parts
Laborsaving apparatus parts / Disaster prevention apparatus parts
- Assembling precision-instruments
Medical equipment / Disaster prevention apparatus

Major Customers

- Tokyo Electron Co., Ltd. (Each Group Companies)
- Minebea Co., Ltd.
- YASUKAWA Electric Corporation
- Sysmex Corporation
- TAMAGAWA SEIKI Co., Ltd.
- Sinshu Aviation Electronics Industry, Ltd.
- IAI Co., Ltd.
- Tokyo Aircraft Instrument Co., Ltd.
- Yamaha Motor Co., Ltd.
- Mitaka Kohki Co., Ltd.
- Harmonic Drive Systems Inc.
- TOWA Industrial Co., Ltd.
- KOFU Meidensha Electric Mfg. Co., Ltd.
- Nabtesco Corporation

Quality and Environment



KYOWA SEIKO acquired ISO 9001 certification established by International Standardization Organization (ISO). It carried out registration of the Eco-Action 21 certification in March, 2010, and is working positively in it for maintenance of quality and preservation of environment.

ACCESS



KYOWA SEIKO CO.,LTD

- Head office factory 1514-1, Shimoichida, Takamori-machi, Shimoina-gun, Nagano-Prefecture, 399-3103 Japan
TEL: +81-0265-35-2421 The inquiry about a brake
- Yamabuki factory 1646-5, Yamabuki, Takamori-machi, Shimoina-gun, Nagano-Prefecture, 399-3101 Japan
TEL: +81-0265-35-8288 The inquiry about part processing

URL : <http://www.kyowaseiko.jp> E-mail : kyowaseiko@kyowaseiko.jp