

We work to satisfy customers, and do our best to become your best partner in the automobile industry.

While supporting customers considering "focused business area", "cost reduction", "profit structure", and "human resource", we do our best for our products and services to be of high quality and reliable, and we always seek to create additional values.

Automobile industry in Japan has been developed well and has grown international. The rate of advancement of technology is incredible and eye-opening, and Japan has now become one of leading countries of the industry in the world. And, in this industry we have been actively involved in development, experiment, production of proto-type automobiles and parts and have been well received.

One of aims we set at the establishment of our company was "development of human resources desired in this industry." It, of course, is not easy; yet many who once interested in and excited about automobiles come to our company, and we think it is our mission to provide environment for them to focus on building and refining their skills and knowledges.

Helping people who were interested in automobiles to become people who think about, design and develop automobiles. Realize their dreams and share happiness of achievements. We keep growing "professionals" who can contribute to the industry in the world. We work to satisfy customers and their people, and do our best to become your best partner.



ISO9001(Testing Department) reg# JQA-QMA13378



Engine Testing Service

Our experienced engineers with know-how plan, prepare and perform tests, collect data, and provide reliable test reports.

We can do endurance tests of engine and parts, tests to check quality and reliability, etc, using our facility. We can do overhauls of customers' engines periodically. We also have a department specialized in designing and producing of prototype parts and jigs necessary for tests, and our service is very well received.

Test examples

High revolution endurance test	Long time endurance test from hundreds of hours to several months
Drive pattern demo endurance test	Quick cooling & heating endurance test
Gas engine evaluation test	Oil consumption test
DPF evaluation test	Catalyst endurance test

Facilities & equipment



Bench room
Room temperature kept at 25 degree C
Fuel options: gasoline, diesel, LPG, city gas(13A)



Exhaust gas analyzer



Oil consumption meter



CNG production facility



Prototype Vehicles

By modifying commercial vehicles, we create prototype, concept cars.

Our experienced engineers with necessary skills and knowledge to develop engines and automobiles create prototype, concept cars of customers' request.

Examples



Vehicles for benchmark test

On commercial vehicles, we mount prototype engine. Before mounting, we measure dimensions of engine room, calculate frame strength, design and produce connecting parts to connect with transmission, ECU, etc.



Instrumentation

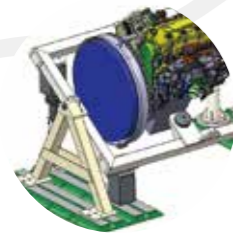
We attach various sensors and a data logger. We make connecting parts and do wiring also.



Functional evaluation test vehicles

On commercial vehicles we attach prototype parts and general-purpose ECUs. We make necessary control devices.





Jigs and Prototype Parts

We design and develop prototype parts, electric devices and software.

Examples



Engine head

From the material provided by a customer, we made an engine head with a machining center.



Oil pan visualization

Set a window to observe oil flow while running engines.



Storage tank

Storage tanks made for bench tests with SUS material by welding. By welding we make equal length exhaust manifold, exhaust pipes, catalyst case, etc.



Set up jigs for bench tests

We design and make jigs such as mission housing to set up engines on test bench.



A/F controller

A controller which can alter signals from A/F sensor. Together with control of ignition signals, we can perform tests under various conditions.



Reverse-engineering

3D scan bench mark parts and we make drawings.



Engine disassembling carts

Carts to set engines for disassembling. Their elevation function enable engineers easy to do disassembling and assembling works.



Cut models

We make various cut models for exhibitions. We do surface processing and make stands for the best presentations.



Development of Test Devices

We design and develop necessary devices for testing of parts and engines.

Examples



Exhaust gas multi-points measurement device

This device controls placement of measurement probes so that we can collect data from various points of exhaust pipes.



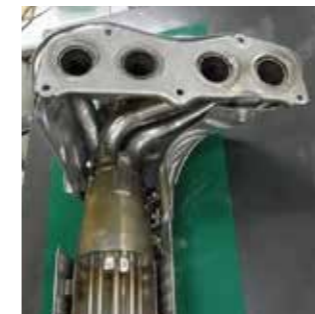
Wind-tunnel box

Wind speed and directions can be programmed, so that to create various wind conditions simulating inside the engine rooms.



Oil and water temperature and pressure adjusting device

It controls oil and water temperature and their pressure levels, so that to create the very condition customers want to test at.



Exhaust manifold heater

A device used to observe the effect of heat at exhaust manifold. It can heat up to 800 degree C.



Electric exhaust pressure adjusting valve

With this device you can control exhaust pressure remotely during engine tests.



ECUs and other controlling devices

- Control of engines
- Control of motors
- Control of valves
- Other instruments and devices to help various developments



Imported Parts and Vehicles

We import parts and vehicles from all over the world.
We make necessary modification to drive on the road of Japan.

We have imported from Europe, Australia, U.S.A., South Korea, China, Thailand, Russia, and others.

Samples of vehicles imported



AUDI Q7
From Germany. A diesel with full-options.



LAND ROVER RANGE ROVER SDV6 HYBRID
From England. Diesel and hybrid.



Mercedes B250e Electric Art
From Germany. Electric vehicle.



CITROEN DS3 R5
From France. A rally car.

Parts imported



Imported High Performance Parts

Our expert staffs provide best High Performance parts and services for from racing teams to hobby racers.



The best partner for solving problems, supports you to become the winner!

As a technical partner of ZF Race Engineering GmbH, with connections with other companies developing automobile parts and High Performance parts, we provide best parts and services.

Products

- | | | | |
|--|----------------------------|--|---|
| | Damper
Clutch | | Aluminum and titan products for Motorcycles |
| | LSD
Drive shaft | | Nuts
Fastner
Aerocatch |
| | Hose
Fitting | | Silicon hose |
| | Gear box | | Poly-urethane bush |
| | Brake pad
Brake rotor | | GPS data logger |
| | Air jack
Fueling device | | ECU
Various sensors |



With our service van equipped with damper tester and tools, we do our best to provide services to match customers' needs.



Development and modification of CNG Vehicles

We modify gasoline and diesel fuel vehicles to bi-fuel or CNG only vehicles.

CNG is one of alternative energies to oil and gasoline, and CNG vehicles can be of benefit for energy security. Their exhaust gas contains less carbon di-oxides, and they contribute to improve environment and lessen the green house effect.

CNG vehicles

Bi-fuel vehicles

Bi-fuel vehicles can accept CNG and gasoline. Mostly small size vehicles. No need to fear to drive into the areas where there is no gas stations supplying CNG.

CNG Only vehicles

Vehicles accepting CNG only. We modify diesel fuel vehicles to CNG vehicles. Little PMs in exhaust gas, and lower noise in comparison to diesel engines. For relatively larger vehicles such as small to medium size buses.



Replacement of CNG tanks

In Japan, CNG tanks can be used for 15 years from the date of production. We offer services to replace old CNG tanks with new ones.

How CNG tanks are mounted.



Company Name	Enable Inc.
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Seisho Technical Center	224-1 Hosoda, Haneo, Odawara-city, Kanagawa 256-0804 Japan TEL: +81-465-46-8861/ FAX: +81-465-46-8841
Kobe Technical Center	7-4-4 minamimachi Minatojima, Chuo-ku, Kobe-city, Hyogo 650-0047 Japan TEL: +81-78-335-5347/ FAX: +81-78-335-5348
Year Founded	April, 2002, as Yanaco Enterorise Ltd.
Year Established	March, 2005, as Enable Inc.
Business Areas	<ol style="list-style-type: none"> 1. Engine Testing 2. Temporaly staffing of Engineers 3. Design and Development of proto-type parts 4. Collecting overseas information and importing of automobile parts 5. Importing, devolping and salses of Racing parts 6. Planning and management of technical training 7. Development and modification of CNG vehicles 8. Employment placement service 9. Temporaly personel agency
Capital	100 million Japanese Yen
CEO	Yoshiaki Kasai
Group Companies	<p>Outsourcing Inc. Marunouchi Trust Tower 19F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005 Japan HP: http://www.outsourcing.co.jp</p> <p>Outsourcing Technology Inc. Marunouchi Trust Tower 16F 17F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005 Japan HP: http://www.ostechology.co.jp</p>

