

NAKAJIMA ENGINEERING Co.,LTD.

FOR CUSTOMER'S RELIEF AND SAFETY OF SOCIETY



HOM

ABOUT

Our mission
Our action
Our outline and history

SERVIC

**CERTIFICATION &
EQUIPMENT**

ACCES

CONTA

We provide following technical services for customer's relief and safety of society

1.Nondestructive testing service

Radiographic testing
Ultrasonic testing
Magnetic particle testing
Liquid penetrant testing
Visual testing
Iron bar detection in concrete construction

2.Destructive testing service(Material testing)

Tensile,compression and bend test
Charpy impact test
Hardness test(shore,brinell,rockwel,vickars)
Element analysys
Macroµ etch test
Corrosion test
Fatigue test

3.Research and examination service

Failure solution service(fracture,corrosion)
Consulting service for metallic materials

4.Calibration service

Measurement of length:gauge,caliper,micrometer etc.
Measuremet of pressure:pressure gauge
Material testing machine:Tensile&compression testing machine
Hardness meter,Charpy impact testing machi

ABOUT US

OUR MISSION

Why we can exist in our society and our country? Why we can earn money from our customer? Because we have the missions useful for customers and society. So we think we are permitted to exist in our society. What are our missions?

Our missions

1. We serve our service for customer's relief and safety of society, as a doctor of metallic materials and metallic hardware.
2. We are not "Specialist" or a "investigator". We will have much concern with that we are "Supplier of service".
3. We think, when we serve, most important thing is to explain throughly our action and result, and to be understood and satisfied by our customer.
4. We are now still very very small company, but we will supply quick, flexible service.
5. We can provide unbiased and uncompromised service to the customer, because we are private and independent and not affiliated with public society and other company.

ABOUT US

OUR ACTION

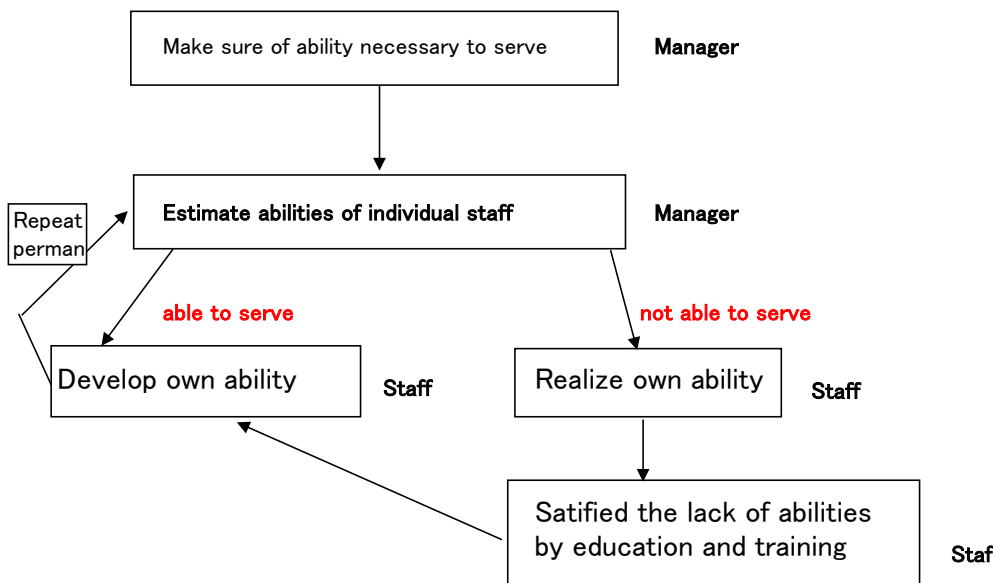
We promise that we prepare and strive to improve next three resources.

Because we have the missions useful for customers and society. So we think we are permitted to exist in our society. What are our missions?

1. Manpower "Raise our skill" education and training

Our most important resource is Manpower.

To raised a skill of our staff, we promise we permanently educate and train our staff. according to following flowchart.



Estimation of ability

- 1) Skills to serve examination, testing, consulting service
- 2) Knowledge about metallic materials and metallic hardware
- 3) Ability of communication with customer or other
- 4) Earnest attitude toward others (customer, other staff) (OPEN-DOOR)
- 5) Fair, unbiased, precise service

2. Equipments, facilities and infrastructures Maintenance and manage

Equipments, facilities and infrastructures necessary to service are maintained and managed for accurate service.

Especially, measurement equipments are calibrated periodically by country standards or global standards.

3. System quality management system

Our management system is certified with ISO9001 by "Lloyd Register and quality assurance" in 1999. We maintain and improve our management system and evaluated favorable by our customer.

ABOUT US

OUTLINE AND HISTORY

<OUTLINE>

Name	NAKAJIMA ENGINEERING Co.,LTD.
Address	1-31-2 Hoshida-kita Katano-city Osaka Japan
Postal No.	576-0017
Telephone	81-72-891-1110
Facsimile	81-72-891-1110
e-Mail	nakajima@n-enji.co.jp
President	Koji Nakajima
Staff	14 staff
Capitals	¥10,000,000
Certifications	ISO9001(JIS Q 9001)Quality management system By LRQA
	"Technical testing and inspection services of metal parts and equipment"
	Japan Welding Engineering Society
	"Certification for Inspection of Welds"(CIW) Class D

<HISTORY>

January.1981	Company founded(at Osaka city)
July.1983	Company established(capital:¥1,500,000)
July.1992	Company moved to kyoto pref.
October.1993	Capital increased(¥10,000,000)
March.1994	Company moved to katano osaka. Build a new headquarters
April.1997	Certified with CIW-E by JWES
October.1999	Certified with ISO9002
October.2002	Certified with ISO9001
October.2010	Certified with CIW-D by JWES

SERVICES

WE OFFER

We can offer following services

1) We detect internal and external flaw without destruction for metallic materials and hardware.

Nondestructive testing service

2) We examine strength and property of metallic materials

Destructive testing service

3) We examine why your products are destructed or corroded and advise solution.

Research and examination service

4) We calibrate your measuring equipment

Calibration service

1. Nondestructive testing service

<FOR INTERNAL FLAW>

Test method	Suitable flaw type	Our equipment
Radiographic testing	cubic flaw	300KVP X-ray equipment
Ultrasonic testing	Planner flaw	Ultrasonic flaw detector, probe, ultrasonic thickness meter
		Standard & reference block
Iron bar detection	Iron bar in concrete	Concrete penetrating rader

<FOR EXTERNAL FLAW>

Test method	Suitable flaw type	Our equipment
Visual testing	All invisible flaw	Flashlights, gauges, test samples
Magnetic particle testing	linear flaw	Ultra-violet irradiation light, magnetizing equipment(DC)
		Yoke magnetizer(AC), Standard test piece
		gauss meter, ultra-violet meter
Liqui penetrant testing	Round flaw	Test liquid(dye/fluorescent)(solvent-removal, water washable, post emulsifiable)
		reference test piece, luxmeter, surface temperature meter

2.Destructive testing service

Test method	Equipment	Output
Tensile test	300KN–2000KN Universal testing machine	Tensile load/strength,Yield point/proof – load/strength, elongation,reduction of area,compression strength Existence of surface crack(bend surface)
Compression test		
Bend test		
Impact test	Charpy impact testing machine	absorbed energy,percent fracture lateral expansion
Hardness test (shore,brinell,vickars, rockwel,ultrasonic)	hardness meter	hardness,efective case depth hardened
Fatigue test	Fatigue test machine	fatigue life,fatigue limit
Macrostructure	etching apparatus cutting machine microscope	macrostructure(flaw,metalfow,segregation)
microstructure (test sample&actual)		microstructure,grain size,nonmetallic inclusion grain boundry corossion
corrosion test	salt spray test machine, acid test apparatus	sulphuric acid test,oxalic acid test,salt spray test copper sulphurate–sulphurate acid test
element analysys	emission spectrochemical portable emission spectrochemical analyzer	amount elements analized
Positive alloy metal identification	X–ray element analyzer	amount aloy elements analized

3.Research and examination service

Unfortunetely if your products are fractured or corroded and trouble your customer, we research and examine why and how they are fractured or corroded, and offer solution of the trouble by our technical services,knowledges and experiments.

- 1)Failure solution service
- 2)Consulting service for metallic materials

4.Calibration service

If length unit "1meter" is different in each countries.what happen?

Probably,there is no business between each countries due to confusion.
It is very important that lengt unit"meter" is common in every country.

Equally,length measured by your equipment,gauge must be common in every country.
So,calibration of your equipment ,gauge is also very important.

We supply calibration service of following equipment,gauge or apparatus.

- a)measurement of length

Ruler,Tape measure,Vernier caliper,Micrometer,Dial gauge
Bore gauge,Height gauge ,Depth gauge

b) Measurement of pressure

Pressure gauge, Pressure manometer, Balance weight pressure scale

c) Material testing machine and equipment

Tensile & compression testing machine

Hardness meter (shore, brinell, rockwell, Vickars)

Charpy impact testing machine

CERTIFICATION & EQUIPMENT

PERSONNEL CERTIFICATIONS

Certification agency	Certification	Level	Number	
Japanese Society for Nondestructive Examination	Radiographic Examination	2	2	
		3	3	
	Ultrasonic Examination	2	9	
		3	2	
	Magnetic Particle Examination	2	5	
		3	1	
	Liquid Penetrant Examination	2	6	
		3	1	
	ASNT SNT-TC-1A Company Certification (* ASNT ACCP Level3)	Radiographic Examination	2	2
			3	1
Ultrasonic Examination		2	6	
		3	*1	
Magnetic Particle Examination		2	4	
		3	*1	
Liquid Penetrant Examination	2	6		
	3	*1		
Japanese Welding Engineer Society	WES8103 Weld Engineer	1	1	
		2	4	
	WES8701 CIW Manager of weld examiner	/	1	
	WES8701 CIW Senior Examiner(Ultrasonic)	/	2	
	WES8701 CIW Senior Examiner(Liquid Penetrant)	/	1	
Japanese Society of Steel Construction	Ultrasonic Examiner of steel Framework	/	3	
	Inspector of steel framework	/	2	
Japanese Reinforcing Bar Joints Institute	Ultrasonic Examiner for reinforcing bar Joint	2	1	
		3	1	
Japanese association of non destructivetesting industry	Examiner of concrete penetrating radar	/	1	
Ministry of Education, Culture, Sports, Science and Technology-Japan	Chief Manager of radiation	Class2	1	
Ministry of Health ,Labour and Welfare	Chief examiner of X-ray radiation	/	3	
Osaka Prefectural Governor	Examiner of Metallurgy	/	3	

EQUIPMENT

Equipment	number
250,300KVP X-ray examination equipment	2
Ultrasonic Flaw detector(Including phased-array)	12
Magnetic-particle examination equipment	1
Magnetizing Yoke	4
Ultrasonic Thickness meter	2

Ultraviolet irradiation Light	4
Liquid Penetrant Test Liquid(Dye,Fluorescent-Solvent/water/Post emulsifiable)	1Set
Microscope(0-1000Magnification)	2
Portable alloy-metal Identification equipment	2
Portable Metallurgy Equipment	1
High speed metal cutter	2
Metal polishing equipment	2
Electric etching Equipment	1
Hardness Tester(Shore,Brinell,Rockwel,Vickers,Portble)	5
Load Meter(10N-20000N)	6
Length Block Gauge(0-1000mm)	1Set
Pressure Generator	3
Dial gauge Calibration Equipment	1
Concrete Penetrating Radar	1
Test pump of hydrostatic test	1
Tensile &Compression testing machine(300KN)	1
Charpy Impact testing machine	1