



Universal Material Testing Machine · Sample Preprocessing Tester
Chemical Tester · Rubber Tester · Automobile Endurance Tester
Impact Tester · Flame Resistance Tester · Textile & Coating Tester

Testing Solution Provider

 **MS TECH Co., Ltd.**

14, Yaksu 8-gil, Buk-gu, Ulsan, Republic of Korea
TEL. 82-52-289-9107~09 FAX. 82-52-289-9209
<http://www.mstech114.com>

Printed in May 2018

 **MS TECH Co., Ltd.**

14, Yaksu 8-gil, Buk-gu, Ulsan, Republic of Korea
TEL. 82-52-289-9107~09 FAX. 82-52-289-9209
<http://www.mstech114.com>

Customer Satisfaction Quality Satisfaction Thorough Follow-up Management

Greetings

We would like to sincerely appreciate our clients' loyalty to MS Tech.

Established in 2002, we are specialized in test equipment, designing and manufacturing the test machine to meet the standards of ISO9000, ISO1400, JIG and KS in metal materials, rubber, plastic, construction material, electricity and electronics, automobile durable industry tester, chemical related field.

Based on our outstanding technology and thorough quality control we are doing our best to produce the test equipment which has been heavily relied on expensive foreign manufacturer, due to distrust and prejudice against domestic test equipment make. We are proud of our products whose quality is never behind that of other competitors.

In 2012, we expanded our business area into processing and testing test specimens to obtain various machine and testing equipment and, based on our best technology and abundant knowledge, perform mechanical test, analysis test, tissue test, and corrosion test in mechanics field. For more reliable reputation of a testing organization, We have been acknowledged by Korea Laboratory Accreditation Scheme (KOLAS) as an "internationally recognized testing institution" in 2014.

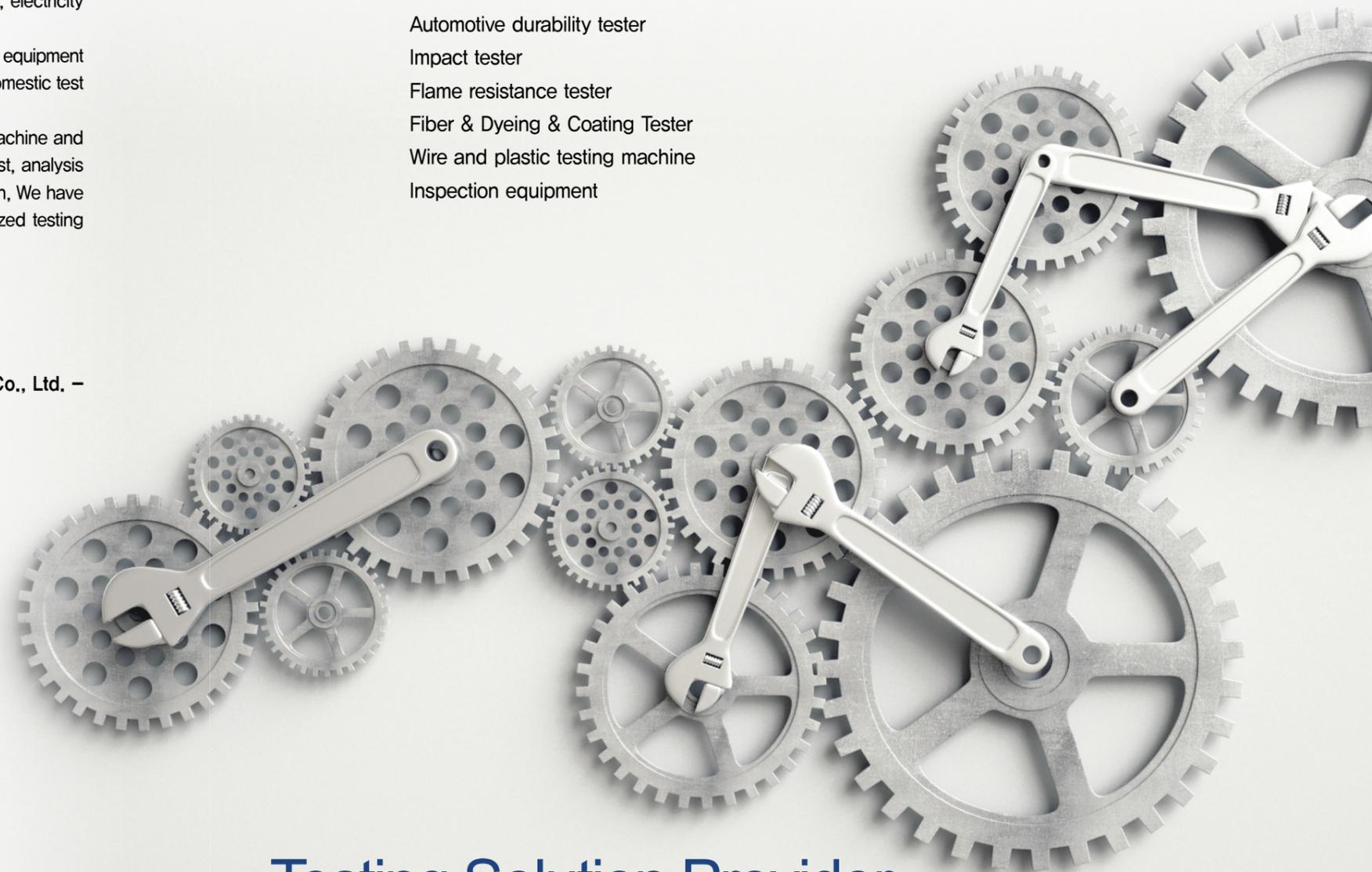
We promise to continually research and develop our products, striving to 'inspire clients'.

Thank you and we wish you a prosperous future.

– All employees of MS Tech Co., Ltd. –

CONTENTS

- Mechanical Testing Services
- Meatallography Testing Services
- Corrosion Testing Services
- Nin Destructive Testing Services
- Universal Testing Machine
- Pretreatment tester
- Physics and chemistry tester
- Rubber Related Tester
- Automotive durability tester
- Impact tester
- Flame resistance tester
- Fiber & Dyeing & Coating Tester
- Wire and plastic testing machine
- Inspection equipment



Testing Solution Provider

MECHANICAL TESTING SERVICES

MECHANICAL TESTING SERVICES

Universal Testing Machine

Test Items

- Tensile test
Tensile strength, elongation, yield strength (0.02% to 2%)
- Compression test, bend test, flat test, widening test, guarantee load test

Test standards

- KS B 0802, KS B 0804, KS B 0832, KS B 0833
- ISO 6892-1, ISO 4136, ISO 5173, ISO 7438
- ASTM A370, ASTM E8, ASTM E190, ASTM E290
- ASME SEC IX, QW150, ASME SEC IX, QW160
- ASME SEC II-A SA370
- JIS Z 2241, JIS Z 3121, JIS Z 2248, JIS Z 3122

Capability

- Manufacturer : Shimazu
- Equipment capability : Max. 1000 kN



High Temperature Tensile Tester

Test Items

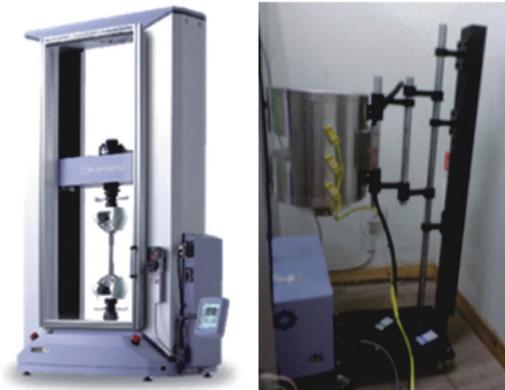
- High temperature tensile test
Tensile strength, elongation, yield strength (0.02% to 2%)

Test standards

- KS D 0026
- ASTM E21

Capability

- Manufacturer : Shimazu
- Equipment capability
 - Max. 100 kN
 - Temperature : Max. 1200 °C



Charpy Impact Tester

Test Items

- Impact absorbed energy
- Lateral expansion, Percent shear fracture

Test standards

- KS B 0810
- ISO 148-1
- ASTM A370, ASTM E23
- ASME SEC IX, QW170
- ASME SEC II-A SA370
- JIS Z 2242

Capability

- 500 J Max.
- Impact test (R,T to -196 °C)



Rockwell Hardness



Test Items

- Rockwell hardness
- Surface hardness

Test standards

- KS B 0806
- ASME SEC II
- ISO 6508-1
- JIS Z 2245
- ASTM A370, ASTM E18

Capability

- Scale : B, C
- reference load : 10 kgf
- test load : 60, 100 150 kgf

Brinell Hardness



Test Items

- Brinell hardness

Test standards

- KS B 0805
- ASME SEC II
- ISO 6506-1
- JIS Z 2243
- ASTM A370, ASTM E10

Capability

- test load 500 kgf ~ 3000kgf

Vickers Hardness



Test Items

- Vickers hardness
- Plating layer hardness
- Surface hardness
- Effective hardened layer depth
- Hardness of weld

Test standards

- KS B 0811
- JIS Z 2244
- ISO 6507-1
- ASTM E384

Capability

- Measuring load : 1 kg ~ 50 kg
- Resolution : 0.1 μm
- Automatic measuring system

Non Destructive Testing Services / Metal Structures Testing Services

Corrosion Testing Services

Non Destructive Testing Services



Test Items

- 2D CT analysis
- 3D CT analysis
- Tomography
- Auto Parts / Casting / Die Casting

Test standards

- No special regulations (subject to customer requirements)

Capability

- Daul(240kv) type
- Maximum scan size (300mm x 300mm)
- Internal Bubble Automatic Rating Tool

Corrosion Testing



Test Items

- Intergranular corrosion test
- Ferric Chloride Corrosion Test

Test standards

- KS D 0201
- ASTM A262
- ASTM G28
- ASTM A923
- ASTM A90 / A90M
- ASTM G48
- ISO 3651-2

Capability

- Manufacturer : MS tech
- 1/2 HP

Inverted Metallurgical Microscope



Test Items

- Microstructure
- Ferrite content, crystal grain size
- Banding microstructure test
- Graphite crystallization rate

Test standards

- KS D 0246
- ASTM A262, ASTM A923
- ASTM B504
- ASTM B487
- ASTM E407, ASTM E562
- ASTM E1268
- ASTM E112, ASTM E45
- ISO 1463

Capability

- Manufacturer : NIKON
- Measurement scale : 50 ~ 1000 (x50 ~ x1000)

Salt Spray Tester



Test Items

- Salt spray test – Metal, organic coating

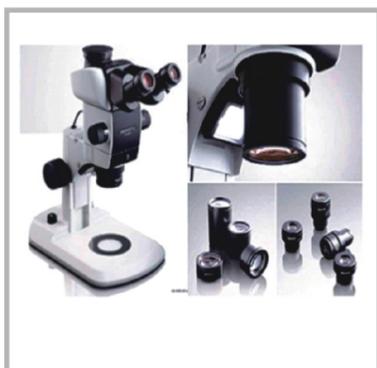
Test standards

- KS D 9502
- ASTM B117
- ISO 9227
- MIL-STD-810F,G

Capability

- Manufacturer : MS tech
- WATER SPRAY TYPE
- Temperature range 35 °C

Stereo Zoom Scope



Test Items

- Macro-structure, surface observation

Test standards

- KS D 0246
- ASTM A262
- ASTM G48
- ASTM E340
- ASTM A923

Capability

- Manufacturer: Huvitz

Chemical Composition Analysis Services

[Spark Emission Spectrometer]



Test Items

- Chemical composition analysis (dry)
- C, Si, Mn, P, S, etc. (30 elements)

Test standards

- KS D 1652, KS M 0028
- ASTM A751, ASTM E415
- ASTM E1251
- ASTM E1086

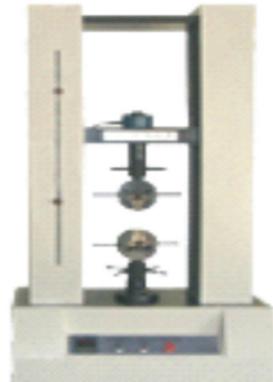
Capability

- 50 Channels
- Fe base, Ni base, Cu base, Al base, Sn base, Pd base

Universal Testing Machine

Universal Testing Machine

Mechanical Universal Testing Machine



Controlled by AC SERVOMOTOR drive method COMPUTER control and panel manual control mode operable, and test load and distance detection are tested by precision LOAD CELL and encoder (Lineargauge).

It is a device that can perform tensile, compression, and bending tests of all kinds of materials such as metals, nonmetals, rubber, fibers, plastics, etc. All driving operations use remote control and keyboard.

Specifications

Model	MSTSUT-100	MSTSUT-200	MSTSUT-500	MSTSUT-1000	MSTSUT-2000	MSTSUT-5000	MSTSUT-10000	MSTSUT-20000	MSTSUT-30000	MSTSUT-50000
Max Capacity	100Kg.f	200Kg.f	500Kg.f	1000Kg.f	2000Kg.f	5000Kg.f	10000Kg.f	20000Kg.f	30000Kg.f	50000Kg.f
Max Capacity	Min Scale									
Accuracy	0.01~600mm/min						0.01~300mm/min			
Cross-Head	Min Scale									
Speed Control	Load Cell									
Indicator	Load & Elongation Indicator									
Accuracy	0.5%									
Motor Capacity	0.2Kw	200Kg.f			500Kg.f	1000Kg.f	2000Kg.f	5000Kg.f	10000Kg.f	
AC Servo Motor	MITSUBISHI(JAPAN)									
Load Cell	BONGSHIN(KOREA)									
Screw	Ball Screw, SKF(JAPAN)									
Dimension	770W X 560D X 1700(mm)				1000W X 640D X 1700(mm)			1300W X 700D X 1200(mm)		
Weight	500kg				700kg	1000kg	1800kg	2200kg	3000kg	

Charpy Impact Tester



This is a hydraulic universal material tester beyond the conventional analog method and adopts a load detection sensor-high precision LOAD CELL or PRESSURE TRANSDUCER to digitally display the test load value and displacement; and it is also equipped with the computer to identify the test progress, analyze input and output data for efficient test and data management.

Specifications

MODEL	MSTUT-20T	MSTUT-30T	MSTUT-50T	MSTUT-100T	MSTUT-200T
FORM	HYDRAULIC SERVO OPERATION WITH COMPUTER CONTROL TYPE				
MAXIMUM CAPACITY	30Ton	30Ton	50Ton	100Ton	200Ton
RESOLUTION	1/4,000 1/5,000 1/6,000 1/10,000				
MINIMUM SCALE	1kg	5kg	5kg	10kg	20kg
DISPLAY	LED DIGITAL DISPLAY				
LOAD SENSOR	LOAD CELL OR PRESSURE TRANSDUCER				
LOAD VALVE	LOAD CONTROL VALVE				
TENSILE TEST INTERVAL	600mm	600mm	700mm	700mm	800mm
ROUND BAR	8~20~30	8~25~40	8~25~60	8~40~70	10~40~80
A FLAT PLATE	0~10~25 (50mm Wide)	0~15~30 (60mm Wide)	0~15~40 (70mm Wide)	5~45~65 (90mm Wide)	10~50~70 (90mm Wide)
COMPRESSION TEST INTERVAL	600		700	800	
PLATEN DIAMETER	100	120	160	160	200
BENDING TEST INTERVAL	450			500	
FLEXING ROLLER DIAMETER / WIDTH	30×120	30×150	50×150		70×150
PUNCH TIP RADIUS	12R	16R	16R	25R	25R
SPACING	560	560	560	610	740
EFFECTIVE TABLE SIZE	650×500	800×560	860×560	900×600	970×730
HYDRAULIC PUMP	ROTARY PLUNGER PUMP AC220V OR 380V 3Ø 0.75kw~1.5kw				
POWER	AC 220V ~ 440V 3Ø 60Hz				
WEIGHT	1.6	2.1	2.5	2.7	3.5

Pretreatment tester

Physics and chemistry tester

Grinders / Mounting Presses

[Entry-level grinding machine]



Model	Model MST-IU
Motor	spring type pressure
Power	4hole for sample
Plate rotation speed	25 to 50mm hole diameter

Plate can be exchanged and rotated forward / backward. Variable speed function allows an operator to deal with polishing widely.

[Metal Specimen Grinder]



It is widely used to polish metal or implement consistent thickness.

[Mounting press]



Model	Model BP-200
input	220v, 1phaes
Heater	1500 watts
MMold diameter	25.4, 30, 31,7 and 40mm

Full automatic system completes heating and cooling cycles in 15 minutes.

Pretreatment tester / Specimen cutter

[Jarket type cutter]



It is easy to operate and cut the sample, and the specimen blade is exchangeable to use.

[Press type cutter]



Durability is excellent and it is easy to support and fix specimen.

[Metal Specimen Cutting Machine]



It can be used to cut hard metal and ore; it can be designed by capacity, material and size.

Abrasion testing machine

[Abrasion / internal surface damage composite tester]



Model	MSTAPT-300
Speed	0.1~2000mm
Weight	200g, 300g, 500g
Ruber size	20 X 20mmR 45mm
Street	100, 200
Scratch Size	1,2R3,0mm
Size	900 X 550 X 600
Weight	30kg

It is a device to visually check the degree of wear and tear after wear-testing the specimen on the canvas and sapphire.

[Pencil hardness tester]



Model	MSTPSH-100
Weight	200g, 300g, 500g
Angle	45
Execution speed	0~50mm/min
Feed distance	100mm

It is a device to observe the degree of wear and tear of the product after wearing the with a pencil.

Complex environmental tester



It is a test device combined with infrared heat resistance test and constant temperature and humidity test of various materials and products. It tests the heat resistance, light resistance and durability of products. The heat resistance test using an infrared lamp can be arbitrarily adjusted from 90°C to 120°C by controlling the infrared heat quantity.

Model	MSTEC-2000W	MSTA-2500W
Main Controller	Touch Screen Control IPC1000	
Temp. Range	-50°C ~ 180°C	
Temp. Accuracy	0.5°C	
Humid. Range	30% ~ 98% RH	
Humid. Accuracy	0.5°C	
IR Lamp Control	Microprocessor PID Controller	
Lamp	Infra-red Lamp 375W x 120EA	
Lamp Power	SCR Wattage Controller	
Dimension (IN)	2000x2000x2000(H)mm	2500x2300x1800(H)mm
(OUT)	2700x2700x2600(H)mm	3250x3050x2500(H)mm
Temp Down Time	20°C ~ -40°C / 60Min Approx	
Temp Up Time	20°C ~ 150°C / 60Min Approx	
Material (IN)	SUS 304 Polishing Plate	
(OUT)	SCP-1 Powder Coating	
(DOOR)	Silicon Packing Door With View Window	
Recorder	12 CHannel Recorder 180mm Chart Paper	
Safety Device	High / Low Limit S/W, Earth Leakage Breaker, EOGR, Water Level	
Power	AC 220V/AAC380V 3P 60Hz	
Optional Accessory	Computer Control Software	

Thermal Shock Tester



It is a device for testing the reliability of various parts and products. It tests thermal characteristics of a component and product by rapid temperature change.

Model	MSTSC-300	MSTSC-500
Test Area Dimension	350x350x450(H)mm	500x500x500(H)mm
Temp. Range(Heating Chamber)	+60°C to +150°C	
(Cooling Chamber)	-65°C to RT	
Heat-UP time	Approx. 20Min from 60°C to +150°C	
Pull-Down Time	Approx. 30Min from TR to -65°C	
Temp. Controller	PID Control by Programmable Controller And manual Controller	
Temp. Recorde	100mm 6Point Hybrid Recorder	
Power	220V AC 3 60Hz	
Driving	Air Cylinder Elevation System	
Safety Devic	Circuit Breaker, Motor Over-Load Relay	
	Over Heat Protector FOr Heat Chamber	
	Over Cooling Protector for Cooling Chamber	
	High-Low Pressure Switch for refrigeration System	
	Various Fuse	
	Alarm Mode	

Physics and chemistry tester

Physics and chemistry tester

Salt spray testing machine



It is designed and manufactured for corrosion resistance, taking preventive measures to fulfill the original product life time as product life time can be shortened when the material coat is aged or a fine pinhole or crack may occur in the coating layer.

Model	MSTSST-900	MSTSST-1500	MSTSST-2000
Dimension(N)	900x600x600(H)mm	1500x1000x600(H)mm	2000x1200x600(H)mm
Temp. Control	P.I.D. TYPE		
Temp. Range	55±2°C		
Temp. Accuracy	±0.5°C		
HUmid. Range	30~99% R.H		
Material(N)	PVC		
(OUT)	PVC & SUS304		
DOOR	PVC & ACRYL 8T		
HEATING VELOCITY	RT~45°C/20Min		

Hot air dryer



It is used for various purposes such as the drying of the vitreous mechanism, the thermal deformation test of the sample, heat strengthening test, and removing moisture from the sample. Temperature control is highly accurate using Digital P.I.D Controller.

Model	MSTFCDO-91	MSTFCDO-150	MSTFCDO-250	MSTFCDO-512
Capacity	91 liter	150 liter	250 liter	512 liter
In Size(WxDxH)mm	450x450x450	500x500x600	600x500x1000	800x800x800
Out Size(WxDxH)mm	600x600x820	890x650x830		
Heater Capacity	1,2KW	1,4KW	3KW	4,5KW
Shelves	2	3	3	3
Type	Forced convection oven			
Temp	Range	Amb +10°C to 200°C, MAX 250°C		
	Accuracy	±1°C		
	Controller	Digital PID controller		
	Regulator	S.S.R controller		
Thermocouple	K(CA type)			
Timer	Range	99 hr 59 min		
	Controller	Digital display		
Safety Device	Over current circuit breaker			
Freezer Comp	Air cooling unit system			
Fan motor	1/16HP			
Power	AC 220V 60Hz			

Thermo-hygrostat



It is widely used for reliability test of various parts materials and products, e.g., durability test, physical property test, deterioration test of food / medicines and corrosion test of metal.

Model	MSTHC-150	MSTHC-216	MSTHC-350
Capacity	150 liter	216 liter	350 liter
Chamber size(mm)	500Wx500Bx600H	600Wx600Bx600H	600Wx700Bx800H
Temp.	Range	-20°C to + 120°C	
	Accuracy	±0.5°C	
	Controller	Digital PID Program controller	
Humidity	Range	35% to 98% RH	
	Accuracy	±3%, 70%	
	Controller	Digital PID Program controller	
Timer	99 hr, 59 min		
Material	In	Stainless steel	
	Out	Steel plate with powder coating	
Shelves	Stainless steel, Adjustable/3EA		
Door	Silicon packing door		
Air Convection	Tangent flow fan with AC-motor		
Freezer Comp	Air cooling unit system		
Inner Lamp	Water-proofed Halogen lamp 12DVC		
Safety Device	Over, Under temp, Potector		
Power Source	220VAC, 60Hz, 1		

Oil resistance tester



It is to test the quality and properties of various materials by heating a specimen while being stirred in oil and at a high-temperature; it consists of four test tubes, and four specimens can be measured at the same time.

Model	MSTWR-C-6	
Dimension(IN)	460x460x250(H)mm	
(OUT(W))	500x500x400(H)mm	
Controller	Digital PID Controller Digital Timer 99hr 59min	
Temp	Range	Ambient +20 to 300°C
	Accuracy	0.1°C at 120°C
	Uniformity	0.5°C at 120°C
Material	In	Stainless Steel(SUS-304)
	Out	Steel Plate With Powder Coating
Heater	Pin Type Incoloy Sheath Heater 4kw	
Safety	Over Temp Limit Low Level Switch, NO Fuse Breaker	
Temperature senser	PT-100 Ohm	
Overfeed protection	320°C	
Test Hole	6ea or 10ea	
Electric	AC 220V, 60Hz	

Physics & Chemistry Tester / Rubber Related Tester

Rubber Related Tester

Water resistance testing machine



It is a tester for the quality and physical properties of various materials at a high temperature in water, and it is possible to control the temperature accurately by Digital P.I.D Controller system.

Model		MSTCWB-11	MSTCWB-22
Capacity		11 liter	22 liter
Bath Size (WxDxH)mm		130x250x150 (cover/300)	330x300x150 (cover/500)
Out Size (WxDxH)mm		340x290x450	540x340x450
Heater Capacity		800W	1,200W
Temp	Range	Amb,to 100°C	
	Controller	Digital PID controller	
	Sensor	PT-100 Ohm	
Timer	Controller	Digital display	
	Range	99hr 59min	
Material	Bath	Stainless steel	
	Out	Steel plate with powder coating	
	Heater	Stainless steel	
Low Level		Level switch	
Pump Capacity		14 liter/min	
Safety		Over current glass fuse	
Power		AC 220V, 60Hz, 1	

Pattern viscometer



This test machine measures the Mooney viscosity, the lowest pattern viscosity and the scorch test of rubber based on the ASTM standard test method.

Model	MSTMV-2000
Temp. range	100°C ~ 200°C
Temp. control	Digital P.I.D Control
Temp. stability	PID, ±0.5°C
Rotor speed	2 rpm
Rotor size	Small, Large
Mooney Range	100~200 MU
Preheat Time	0~600 sec
Decay Time	30 min
Data Report	T3, T15, T18, T5, T30, T35, MI, ML, ML 10+4
Compressed Air	4.2kg/60psi
Display	interl chipset computer
Power	AC 220V, 10A, 50/60Hz
Net Weight	260kg

Rheometer



This tester shows continuous and stable curves in evaluating the properties of rubber, especially excellent in reproducibility of temperature.

Model	MSTR2000
Temp. range	100°C ~ 200°C(Option 250°C)
Temp. control	Digital P.I.D Control
Temp. stability	PID, ±0.5°C
Rotor speed	100 rpm
Oscillating Amplitude	0.5, 1, 3
Data Report	ts1, ts2, ts5, tc10, tc50, tc90, ML, MH, S
Compressed Air	4.2kg/60psi
Display	intel chipset computer
Power	AC 220V, 10A, 50/60Hz
Net Weight	250kg

Cold resistance tester



This device inspects the crack the sample in an experiment at low temperature. Through the sight window the inside can be observed.

Model	Cold resistance tester
Temp. range	-30°C ~ 50°C
Temp. control	PID Controller
Heater	Elpin Type 220V 2KW
Fan Motor	Brushless DC Motor
Shelve	2 pcs
Refrigerator	2 Stage 1/2HP + 3/4HP
Dimensions	500W x 500D x 500Dmm(available)
Power	220 VAC, 60Hz
Net Weight	70kg

Ozone tester



It has been designed / manufactured for the purpose of measuring heat deterioration of vulcanized rubber caused by ozone in the atmosphere and investigating / testing ozone resistance.

Model	MSTOT-500
Chamber Size	500 x 500 x 500(w x d x h)
Ozone Range	Max, 250 pphm
Ozone Tolerance	±5%
Temperature Range	Amb to Max, 90°C
Temperature Tolerance	±5%
Power	220V, 50/60Hz Single Phase
Dimensions	1,500W x 700 x 1,200(w x d x h)
Weight	150Kg
Dynamic Test	Option

Automotive Durability Tester

Automotive Durability Tester

Aging tester



Model	Rubber aging tester
Temp. range	Amb,5°C ~ 250°C
Temp. control	Digital P.I,D Control
Temp. stability	±0,5°C at 150°C
Material	In;SUS #304, Out;SS #41
Motor	Fan (1/4HP), Drive(1/20HP)
Sample holder speed	5~8 rpm(Digital)
Heater	3kw
Timer	24hr(Auto timer)
Dimensions(in)	500W x 500D x 600H mm
Dunensions(outer)	1000W x 800D x 1500H mm
Power	AC 220V, 60Hz
Net Weigut	120kg

Equipment to test shrinkage and aging of test specimens such as rubber, plastic, and wires by heating them at a high temperature

Sheet pad hardness tester



Model	MSTSST-061120
MAIN ELECTRIC SOURCE	AC 220 Volt ±10%, 60 Hz ±5%
Drive system	SERVO MOTOR
POSITION CHECK	ENCODER
CONTROL	PC CONTROL
TEST MAX SPEED	500mm/min
Maximum load	200kgf
FRAME SIZE	(W)800*(D)700*(H)1430

A device that measures the difference in displacement by controlling the position of the pressure chamber with the servo motor to apply static load to the car seat

Hose Impulse Tester



Model	DS-DFT-100
POWER	AC 220V 3P/60Hz
TORQUE	50kg.f
ANGLE	0~180
MOVEMENT MOTOR	AC Servo Motor 500w~3KLw
REDUCER	1/50, 1/100, 1/150
TORQUE METER	Rotary Type
ENCODER	Rotary Encoker 3000pulse, 6000pulse
CONTROL	PC Monitoring Control
IN/OUT CARD	Analog 8ch 168Bit, Digital card
WEIGHT	Ap 300kg
SAFETY DEVICE	① Torque Limit
	② Servo Motor Over Load Protector
	③ Noise Filter
	④ Emergency Switch
	⑤ None Fuse Breaker
	⑥ Main fuse

A comprehensive testing machine that measures the performance and analyzes the data by various tests such as the operating torque and rotation angle of the car, other cargoes and door

High-pressure car wash tester / water tester

[High-pressure car wash tester]



Equipment to check the surface condition of specimen by spraying water on painted specimen; it has been designed for a test at various angles

OPERATION CONDITION	MAIN ELECTRIC SOURCE	AC 440 Volt ±10%, 60Hz ±5%
GENERAL DESCRIPTION	TEST METHOD	HIGH PRESSURE PUMO
	TEST TIME	30 SEC
	TEST PRESSURE	70kgf/1
	TEST DISTANCE	100mm±5
	TEST ANGLE	TYPE 1-90, TYPE 2-45
	NOZZLE ANGLE	25±5
	TEST WATER FLOW	12,5±2,5
FRAME SIZE	(W)800*(D)700*(H)1430	

[Water tester]



Equipment to check the surface condition of specimen by spraying water of 10 bar in four directions while moving specimen table up and down and constant rotating

TEST Q' TY	4EA
Tabe Testing Speed	10±2PRM
Tabe Stroke	40mm
Water Pressure	5-10bar

Automotive Durability Tester

Automotive Durability Tester / Impact Tester

Burst pressure tester



Items	Description
Dimension	1870(W)x980(D)x1418(H)
Type of Door	Single Open / Shock absorber Type
Sliding Distace of JIG	700~1000L
Safety Device	1st Outside Door/2nd Protective Device for Burs
Range of Prossure	1500bar(Max)
Velocity of Pressure	1000~3000bar/min
Test Cycle	Apply Pressure > 2~3min main tenance > Burs
Kind of Oil	Power Steering Oil(DEXSLON)
Electric Power	AC 220V, 3, 60Hz, 5.5kw

In order to increase the efficiency of generating burst pressure, the efficiency of generating force was achieved by the operation of the BOOSTER CYLINDER via the hydraulic drive, and the safety of the test maker has considered by devising the safety device for the high rupture pressure.

Spoiler & Door Tester / Life Cycle

[Spoiler & Door Tester]



The test speed and position of the product check out the control and number of times.

Model	MSTSP1000
Test Method	Servo Motor & Vacuum Unit
Test Speed(Open/Closed)	1.6m/sec, 10 SPM
Cycle	30,000
Control	Electrotype Control

[Life cycle]



Equipment for inspecting disconnection, short circuit, overheating of the heater wire components mounted on a vehicle seat

Classification	Items	Description
Air booster cylinder	Shared pressure	1:25
	pressure	125kgf
	stroke	250mm
Dimensions	Press part	500x400x900
	External size	730x400x1520

Sheet Molding Tester / Door Tester

[Sheet Molding Tester]



Burst pressure generation detectible

Classification	Items	Description
Air booster cylinder	Shared pressure	1:25
	pressure	125kgf
	stroke	250mm
Dimensions	Press part	500x400x900
	External size	730x400x1520

[Door Tester]



Structure to indicate measurement value, using rotary encoder with AC MOTOR BALL SCREW TYPE

Type	Table Type
Drive system	Motor
Load Weight	1kg, 5kg, 10kg
DOOR Weight	21.5kg ±0.5kg
Dimensions	Press part
Power	220V 60Hz
Angle limit value	Up / Down ±30, Right and left ±30
Door center of gravity	800 mm

Impact tester

[DuPont Impact Tester]



Used to evaluate the bond strength by applying impact to paint film and film.

[Izod impact tester]



A device to measure the impact strength, a measure of tension

[Free drop impact tester]



Test equipment to check the fracture of a specimen by thrusting the weight at a certain height

Impact Tester / Flame Resistance Tester

Textile, Dyeing and Coating Tester

Charpy impact tester



Test equipment to measure energy absorption

Model	MSTI-100
Type	Charpy & Izod for metals
Capacity(Max)	(10~75)kgf.m / (100~750)
Readout	Digital display
Raised angle	140
Pendulum weight(App)	20 kg(44.1 lbs) or more
Standards Compliance / Accuracy	Exceeds ASTM E23, ASTM D6110(Charpy), ASTM D256(Izod)
Power Supply	ISO 179(Charpy) and ISO 17025
	200 V, 50/60 Hz, 4A
Machine Dimension	1550x1000x1500mm
	61.02x39.37x59.06 in
Machine Weight	1100 kg(2425. 1 lbs)

I.R dyeing machine / Normal pressure dyeing machine

[I.R dyeing machine]



Economical model using 100% space

Model	MST-6000T
Pot	150ml x 16EA x 2Chamber
Max. Temperature	RT ~ 150°C
Speed Control	inverter(CW,CCW)
Heater	Ceramic Infrared Heater
Cooling System	Water Air Circulation System
Chamber Size(in)	420 x 312 x 800 x 2Chamber
Chamber Size(out)	11300 x 830 x 800mm
Power	220V 50/60Hz, IP

[Normal pressure dyeing machine]



Semi-permanent finest model made of ALL SUS Mirror plate

Model	MST-34
Number of Beakers	30EA x 25ml x 2Chamber
R,P,M	20~300rpm
Power Source	220V, 4kw
Stroke	35mm
Material	All SUS Mirror
Dimension	500 x 1900 x 750mm

Horizontal and Vertical flame resistance tester

[Horizontal flame resistance tester]



Model	MST 110V
Specimen Size	70x300mm
Bunsen Burner	Micro Burner 9.5dia mm
Flame Height	Variable Gas Flow Meter Type
Timer	999.9 sec
Dimensions	700W x 350D x 700H mm
Power	220 VAC, 60Hz
Net Weight	20kg
Standard Method	JIS L 1091, KS K 0585



[Vertical flame resistance tester]

Model	MST 110H
Specimen Size	114x318mm
Bunsen Burner	Micro Burner 9.5dia mm
Flame Height	Variable Gas Flow Meter Type
Timer	999.9 sec
Dimensions	450W x 350D x 500H mm
Power	220 VAC, 60Hz
Net Weight	10kg
Standard Method	JIS D 1201, KS K 0582

Equipment to check flammability of automobile products, e.g., plastic, synthetic resin, urethane, and building materials

Experimental Auto Dyeing / Lift Dyeing Machine

[Experimental Auto Dyeing]



High reproducibility of on-site dyeing process with excellent heating and cooling ability as well as microprocessor program

Model	MST-24	MST-16	MST-8
Number of Beakers	24EA	16EA	8EA
Capacity of Beakers	140ml	250ml	450ml
Max. Temp	140°C	140°C	140°C
R,P,M	40rpm	40rpm	40rpm
Heating Time	20min	20min	20min
Heating Power	6kw	6.6kw	6.6kw
Cooling System	Cooling Water	Cooling Water	Cooling Water
V,A Meter	Digital	Digital	Digital

[Lift Dyeing Machine]



It minimizes mechanical failure due to moisture

Model	MST-23
Beaker	30 x 250mm x 23EA
Temp range	RT ~ 95°C
Size(in)	600 x 250 x 320mm
Size(out)	900 x 380 x 950mm
Controller	Digital
Material	ALL SUS 304
Motor	3 Phase 0.4kw
Power	220V 60Hz

Wire & Plastic Tester / Inspection Equipment

Inspection Equipment

Fluidity tester



Temperature	Digital P.I.D controller
Temperature range	25°C ~ 350°C
Motor	220V, 15W
Cylinder	160mm / 9,550±0.007mm
Piston Head	9,474±0.007mm
Power	AC 220V, 50/60 Hz
Net Weight	50kg

A device to measure the compression rate when a molten thermoplastic is compressed through a die of specific length and diameter under designated temperature and pressure conditions.

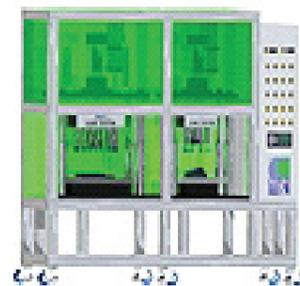
Planar / Air leak measuring instrument



[Planar]

Equipment to measure the assembly tolerance of components mounted on a vehicle engine part

Classification	Items	Description
Air Booster Cylinder	Stroke	30mm / 40mm / 50mm
	Pressure	6kgf
Dimensions	External size	500x400x900



[Air leak measuring instrument]

Equipment to identify leakage with AIR LEAK TESTER

Model	Air Leak Tester	
Air Leak Tester	Movable stroke	200mm
	Pressure	140kgf
Dimensions	External size	2200 x 800 x 2200

LCD panel thickness and flatness inspection equipment



- This inspection equipment is a total inspection of 146 points (flatness thickness), and the product is panel of PDP panel.
- The MODEL of the product is designed to measure three types of equipment.
- The operation of the product is manual unloading, and the inspection is automatically checked.

SHAFT OD / RUN-OUT Inspection Equipment



SHAFT DIA, RUN-OUT Inspection Equipment

This equipment is an inspection equipment to measure outer diameter and run-out of shaft. It is a device to measure manually by replacing 12 SHAFT.

- Product input: Manual UNLOADING
- Product Inspection: AUTO MEASURING SYSTEM

LEAK & OIL injection TESTER



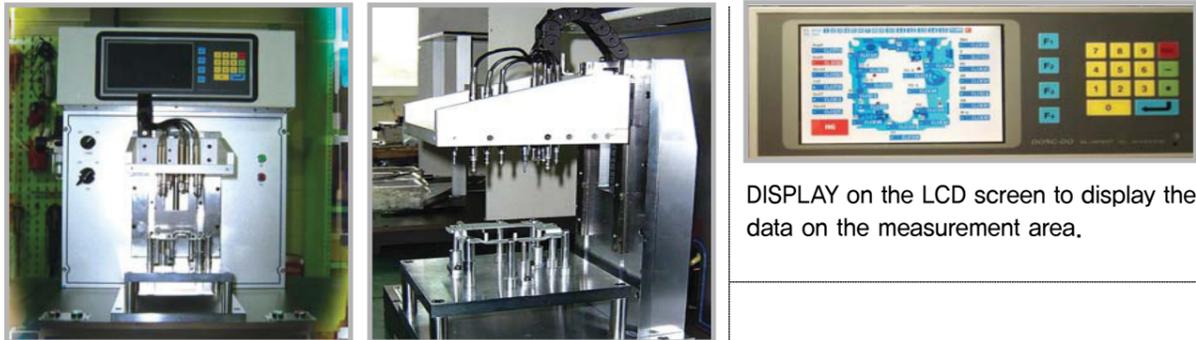
This equipment tests the LEAK of the AL housing part of the reducer and automatically applies the grease to the BEARING part of the second gear.

- 12 types of reducer are used to replace the seat JIG, and the coating of grease is also a device to adjust the amount of injection according to the capacity of the reducer.

Inspection Equipment

Inspection Equipment

Press Chassis Flatness Inspection System



DISPLAY on the LCD screen to display the data on the measurement area.

This equipment is to check the flatness and thickness of MAIN BASE PLATE such as VTR, DVD, CAR CD. A centralized, entry-level measurement instrument that manages and processes all measurements in an electronic micrometer after excluding existing expensive PC software.

Inspection equipment for order making

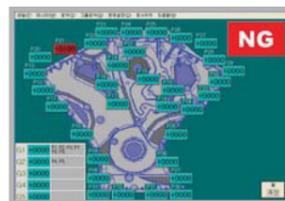


Engine cover inspection equipment

This equipment is to check the unevenness of the machined surface to leakage of OL when engine cover is stowed.

Inspection items

- Group according to measuring point
- DATA management : SPC management using PC



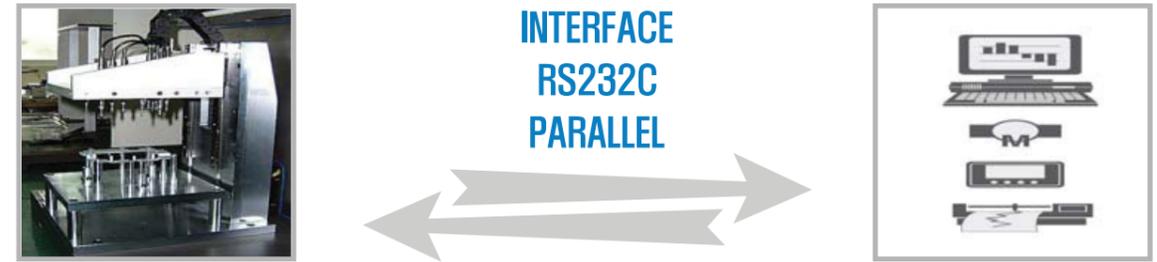
Copier FRAM inspection equipment

This equipment checks the overall check point of the internal FRAM before assembling the copier ASS' Y.

Inspection items

- HOLE inspection
- Height and level difference inspection
- Assembly test

PC INTERFACE MODEL



Computer Interface Electronic Micrometer

Features High Speed

- Easy data Acquisition
- Paralel Commucation – High Speed Data Transmission
PCI / ISA Card Selectables
Serial Commucation(Ra232c)–9600 / 19200bps, N81



Compuer I/F Model



Model : ML-4P-CT1(1~4 Channel)



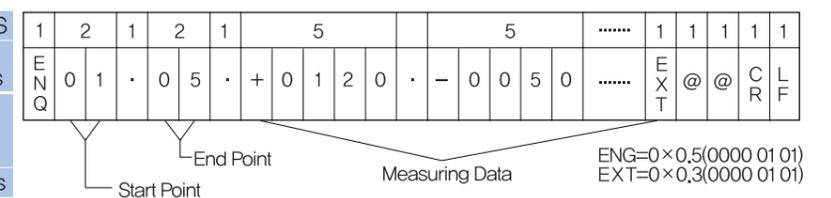
Model : ML-16P-CT1(1~16 Channel)



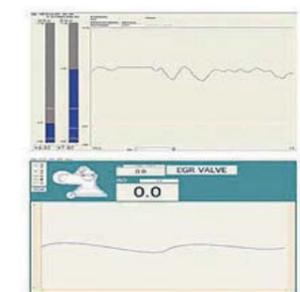
Model : ML-32P-CT1(8~64 Channel)

RS232C Specification

DMSION	SPECIFICATIONS
■ Port	–SERIAL(9Pin)
■ Method	–Asynchronous
■ Character	–Data Bit : 8Bit –Stop Bit : 1 Bit –No Parity Bit
■ Band Rate	9600/19200 bps



Application



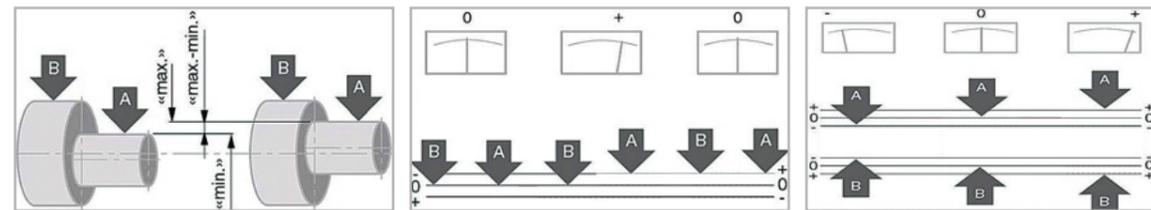
Inspection Equipment

Inspection Equipment

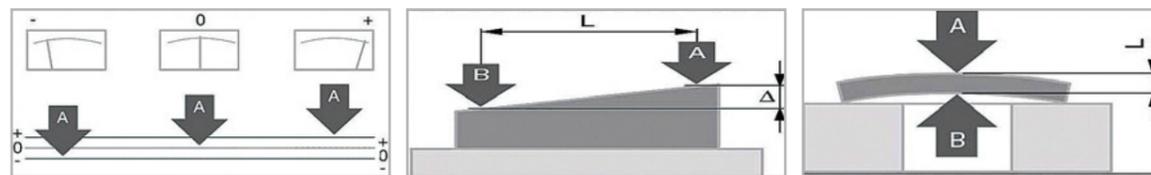
ML-16PW5T(1~24 Multi channel)



Display the shape of the product on the LCD screen and display the DATA on the measurement area. Product shape DISPLAY is OPTION.



It is possible to measure (OK/NG) coinage by measuring many points at the same time.

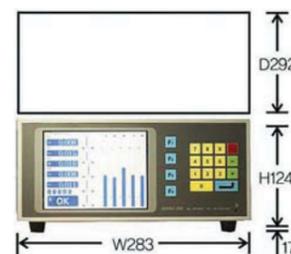


- For measurement of outer diameter (D POINT) ■ POINT Flatness measurement ■ Multi-point thickness measurement
- POINT RUN-OUT measurement is mainly used for many measurement points.

Specifications

MODEL	ML-16PW4	ML-16PW4-R	ML-16PW4-G	ML-16PW4-DF	ML-16PW5-DF	ML-16PW5-G	ML-16PW5T-DF
DMSION							
Display	Graphic LCD		240×28		320×240, 256Color		640×480,TFT Color
	Illuminator		LED TYPE		CCFL		
Channel	4~16	2~4	4	2	2	4	2
Measuring Range	± 2,0mm		± 1,0mm		4~50mm		± 1,0mm
Dimension	W283, D292, H124						
Weight(kg)	5,7						6,2
Outer Interface	RS232C Port		9600BPS, N81				
	I/O Port		PCL /I/F(IN : 4 OUT : 6)				
	Printer Port		PARALLEL TYPE(Centronics Bus)				

Dimension



SKEW adjustment and inspection equipment



This equipment is the equipment to inspect and adjust the image / sound of CD-ROM, CD-RW, DVD and other major products reproduce.

- Automatic adjustment using STEP MOTOR
- DATA management : SPC management using PC
- SKEW adjustment : classified into contact type and non-contact type.



Inspection equipment for indentation (depth/load)



This equipment is used to simultaneously produce and inspect PIN with AL die casting products at a constant load / depth. The press-fitting of this equipment can work simultaneously on the Z-axis and X-axis, and it is possible to check the failure of indentation load accurately.

- User : CheonYang Industry

Indentation depth and indentation load inspection equipment



This equipment is the inspection / production equipment that automatically inspects the indentation load / indentation depth. The product is a system to press BEARING, PIN, and SLIP to the correct load and depth.