



YASUDA
— TESTING THE LIMITS —

Company introduction





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Outlook



Since 1955 (more than 60 years, 300 testing machine)

JIS (Japan Industrial Standards)

- Member of JIS committee
- Yasuda Revised the Standards
- Plastic & Rubber



ISO9001

- Since 2001
- QMS (Quality management system)





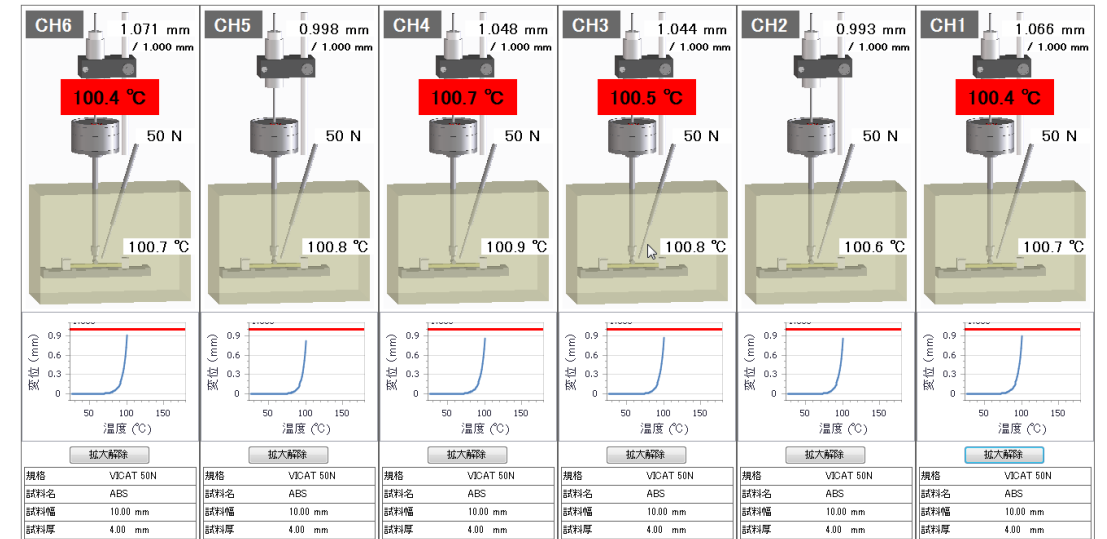
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Strong Point of Yasuda



• 1) Automatic machine

- ① The operator only push “start”
- ② The data come out Automatically
- ③ Simple design
 - Unbreakable & Easy to repair
- ④ Patent
 - The other maker cannot make as same as YASUDA





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Strong Point of Yasuda



2) Technical Support Team in Oversea

① Yasuda have branch in Thailand & China

→ calibration & modify & fixing

→ They educate and helping the other Area

② Each country have own agency

→ All of them have engineers & training Yasuda machine





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Yasuda Main Products



No148 HDT

- This is the most necessary tester for the heat resistance test of thermo plastics. This machine can perform DTUL, VSP and Ball pressure tests.



- No148 HD-500 HIGH TEM.
Heat Distortion Tester



No148 HDA Auto Heat Distortion Tester

- No148 HD-PC Heat Distortion Tester



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Viscosity of the thermoplastic resin



No120 Melt Flow

It is the one to measure the melt flow rate that is the index of liquidity of thermoplastic plastic at the processing. All processes from the test condition setting to the data processing can be easily done by the keypad input



**No120 Melt Flow
Index Tester (Manual)**



**No120-SAS-2000 Auto
Melt Flow Index Tester**



**No120-LABOT-MI Fully Auto
Melt Flow Index Tester**



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Charpy & Izod Impact Tester

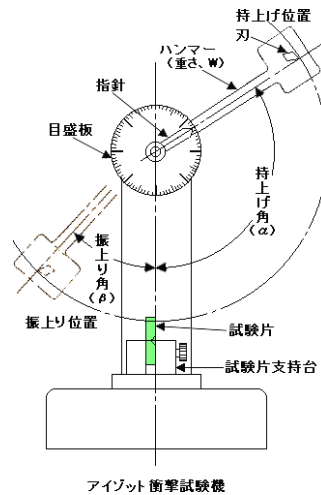


No258

This tester is used for measuring the impact strength by pendulum.



- No258 Digital Impact Tester



- No258L Impact Tester with Low Temp. Oven



- No258ZA Fully Auto Impact Tester



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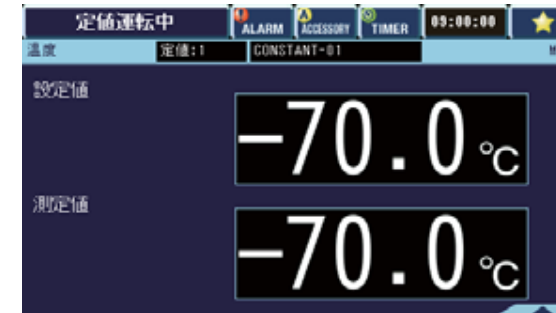
Espec & **Y**asuda



2016 we developed new products Universal Impact Tester (-70°C)



- No268 Universal Impact Tester



-70°C in 90min



Charpy Impact(Auto sample set)



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Notching Machine



No189

This machine is used to make a notch into test specimens that is required for Charpy and Izod impact tests. When replacing the notch knife, the notch knife can be independently taken off to realize low running cost.



- No189 Notching Machine
(Manual Type)



- No189 Notching Machine
(Auto Type)



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CREEP TESTER



No145

This tester is used to measure the increasing creep by applying static load to plastic test specimens. By choosing the grip, the tester enables to conduct tensile test, condensation test, and bending test. The tester can also be assorted with test functions such as relaxation test, heat shrinkage test, and thermal impulse test.



- No145-A **CREEP TESTER**
FOR LIGHT LOAD



- No145-B **CREEP TESTER**
FOR HEAVY LOAD



- No145-C **CREEP TESTER**
STRESS RELAXATION



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Universal Testing Machine



The test specimen is attached to chucks on both ends and is applied elongation/ compression force continuously through loadcell until breakage. Tester control and tensile strength calculation are both conducted via touch panel interface.



- No216 Universal Testing Machine
(Max5KN)



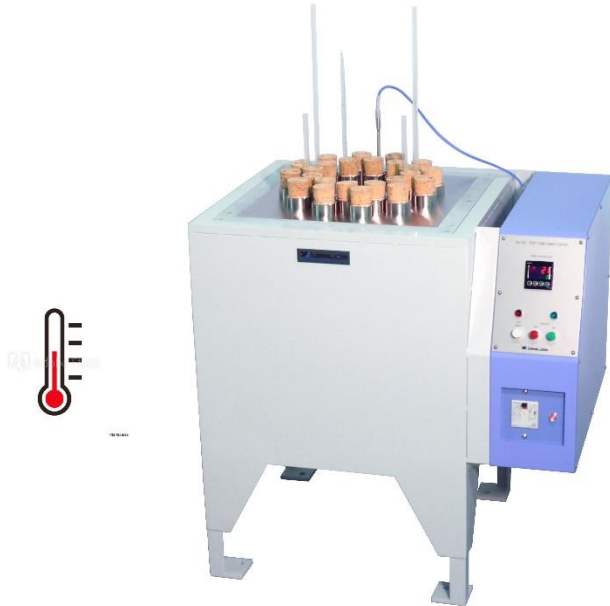
- No216 Universal Testing Machine
(Max10KN)



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Aging Tester



- No122 **Test Tube**



- No102 **GEER AGING OVEN**



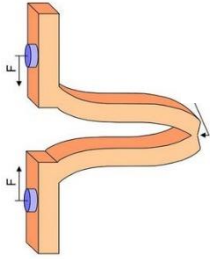
- No187 **Ozone Aging**



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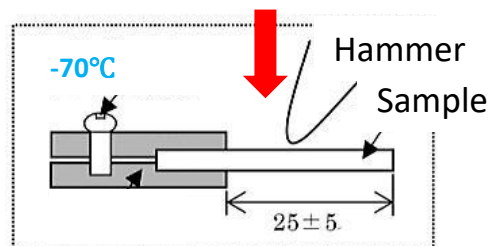
Rubber Tester



- No119 De Mattia



- No121 BRITTTNESS Tem. TESTER



- No191 Mixing Roll



Plastic & Rubber Sheet



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Rubber Abrasion Tester



- No101 Taber Abrasion Tester(Vacuum)

Plastic,Rubber, leather,wood,paint



- No151DIN Abrasion Tester(Vacuum)

Tire,belt



- No152 Akron Abrasion Tester(brush)

Tire, shoes soles



- No271 NBS Abrasion Tester(Air)

shoes soles





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Test Press



Plastic & Rubber Sheet



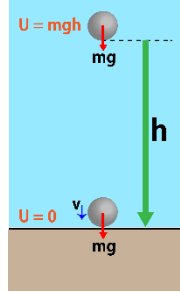
- No219 **Mini** Press(10ton)
Manual Type



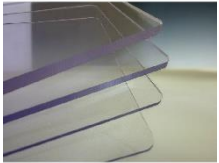
- No196 Press(20,30,37 ton)
Auto Type



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Falling Impact Tester



No183-S Falling Dart Impact



No183 Falling Ball Impact



No220 Dart Impact



No.517-L

No517 Du Pon Falling Impact



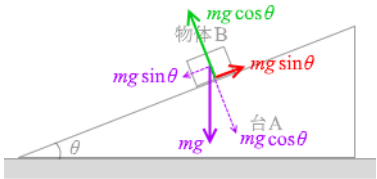
No181 Film Impact



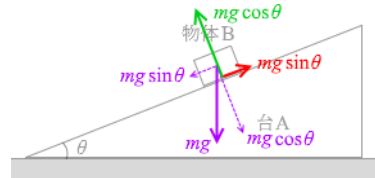
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Slip Tester



No162 Slip Tester



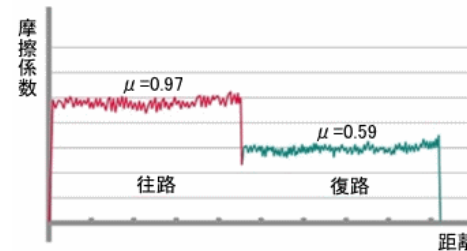
No162-S5 Slip Tester



No162-FS Slip Tester
(Horizontal Method)



No162-S5 Slip Tester





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Sealing Tester



No213 JIS Heat Sealer



No276 Heat Sealer(5,7station)



No212 YSS Heat Sealer



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Flammability Testing



- No214 **Oxygen Index** Flammability

The operator is to check the **lowest oxygen level** (the oxygen level is acquired from a mixture gas of oxygen and nitrogen) that the test specimen is capable to flame inside the flaming column.



- No252-**UL-94** Flammability Tester

This tester is used to evaluate the burn-resistance of plastic, **Vertical test**(VB) and **Horizontal test** (HB).



No.440-S2

- No440 **MVSS** Flammability Tester

This tester is used to evaluate the flammability of inner material for cars, tractors, and machines.



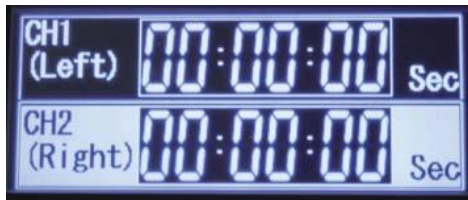


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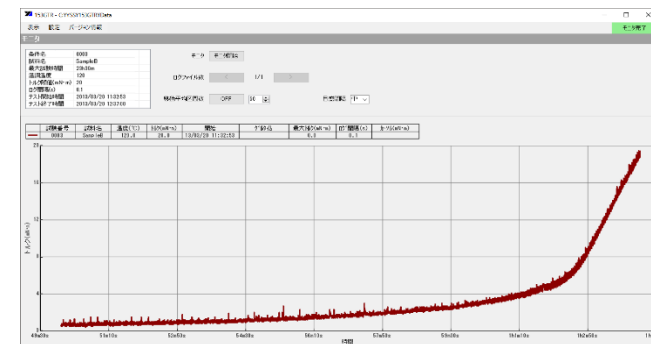
Gel Time Testing



- No153 Gel time Tester



No153-GTR Gel Time Tester
(Torque Meter)

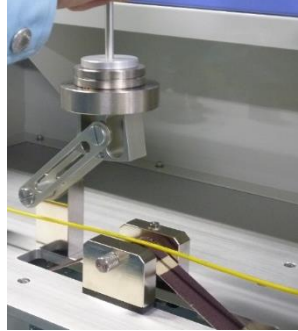




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Wire Harness Abrasion Testing



No.208 Low-Voltage Cable Abrasion Tester

The feeding will be stopped when the sample gets conducted. Resistance value will be measured by how long the tape fed until it got conducted



No.210 Magnet Wire Abrasion Tester

The abrasion will be stopped when the sample gets conducted.
Resistance value will be measured by how many times the wire abraded on the surface.



No.215 Scrape Tester

The abrasion will be stopped when the sample gets conducted.
Resistance value will be measured by the weight which can make the wire conducted



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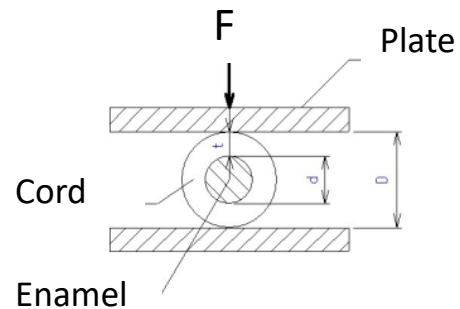
Electric Wire -Code Testing



No254 Plug Flexing Tester



No185 Parallel Plate Plastometer



Max80,000KV



• No199 Volt-Endurance & Destruction Tester





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Permeability Tester



No409 Water Penetration Resistance Tester



NO323 Gurley Densometer



No401 Water Vapour Permeability Cup



No 367 Water Vapour Permeability Chamber



No202 Leather Water Vapour Permeability tester





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Textile Tester



- No445 Elmendorf Tearing

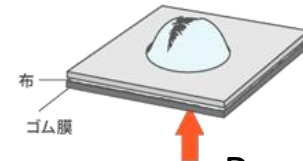


No.440-S2

- No440-S MVSS Flammability



- No404 Mullen Bursting



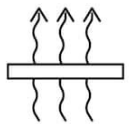
Pressure



- No428 Color Fastness Rubbing



- No323 Gurley Densometer



breathable material



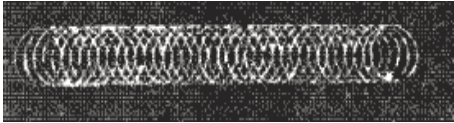
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Scratch Tester



NG



OK



No519 Paint Film Drawing Tester

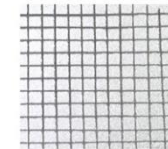


No553 Pencil Scratch Hardness Tester

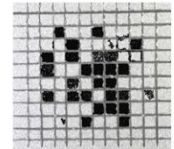


No551 Cross Cut Tester

(OK品)



(NG品)



Fluorine Coating





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Paint Testing



No510 Baker Film Applicator



579 Barcoater



No548-YKG Film Applicator (Doctor Blade)

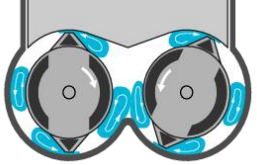


No542-AB Automatic Film Applicator



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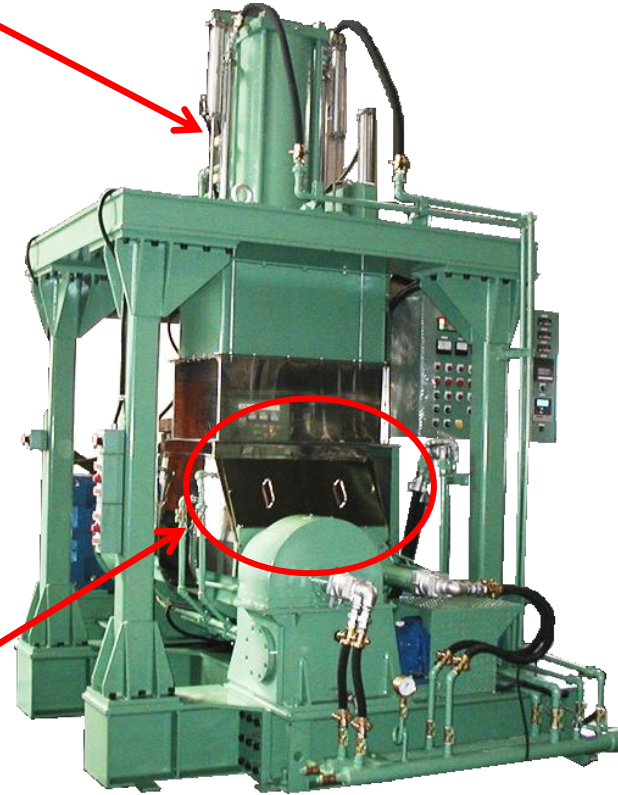
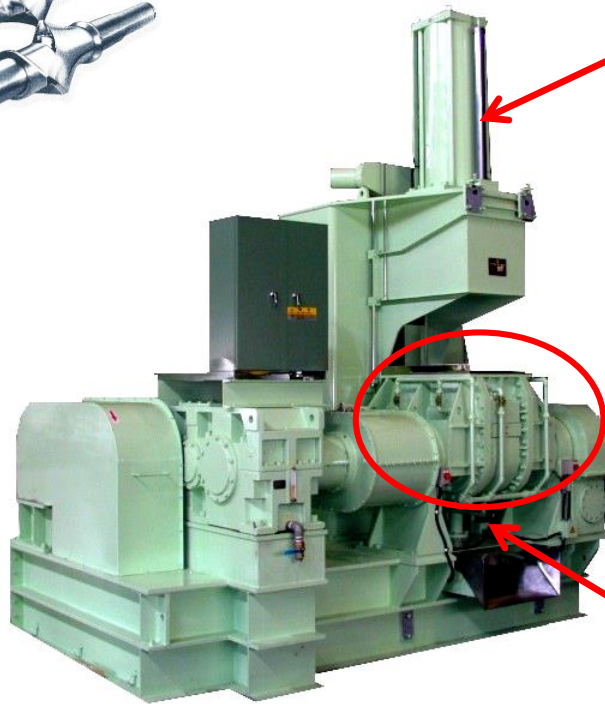
Dispersion Kneader



Specially designed blade shapes



A large amount of powder is ejected to the upper part from the gap between the pressure lid and the mixing tank in the step of integrating the polymer and the filler (mainly powder) during kneading.



Working Space

Model	Working capacity (L)	Total capacity (L)	Main motor (kw)
TD 0.3-3	0.3	0.9	2.2
TD 0.5-3	0.5	1	2.2
TD 1-3/5	1	3	2.2/3.7
TD 3-10/15	3	9	7.5/11
TD 6-15	6	12	11
TD 10-15/20	10	20	11/15
TD 20-30/40	20	50	22 /30
TDS 35-75/100	35	80	55/75
TDS 40-100/120	40	90	75/90
TDS 55-100/120	55	125	75/90
TDS 75-120/150	75	175	90/110
TDS 110-150/175	110	250	110/137
TDS 150-175/215	150	300	137/160
TDS 170-215	170	440	160
TDS 200-300	200	440	220
TDS 300-400	300	700	300



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Extruder

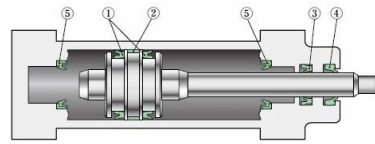
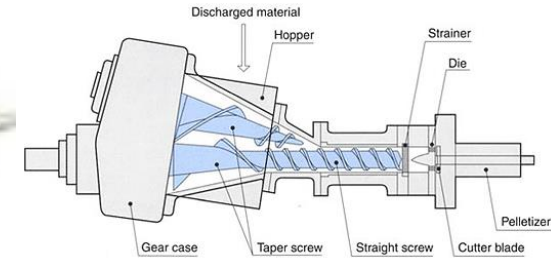


Fig1.Plunger Extruder(Piston Type)



Twin taper single Extruder

Fig2.Screw Extruder

After mixing the Rubber/Resin/ BMC compound by Kneader , the extruder is using for pelletizing , Straining, Sheeting by changing output of die shape. Japanese technology can Extruder not only high-viscosity rubber and plastic compounds, but also low-viscosity semi-solids, various elastomers, ceramic powders, and new materials such as various composites.



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UTM (50-250 k N)



Testing Machines:

The accuracy and precision conforms to the requirement for international standards.

ASTM E4	GB/T7314-2005
ASTM E8-04	GB/T 16826-2008
BS 1610	ISO 7500 -1:2004 ISO
CNS9471 /9470	6892-1:2009
EN10002-1	JIS B 7721-2002 JIS Z
GB/T228-2010	22410-2008
GB/T232-2010	JJG 139-1999
GB/T 17200-1997	JB/T 6146-2007
GB/T 16491-2008	JB/T 7797-1995

High Strength Structure

High strength aluminum alloy combined with streamlined design, elegant, bright and generous.

High Precision Load Cell

Features a low-profile load cell, with stable load induction, high accuracy, high stability, and a safety factor of 150 %.

High Stability

Using Ball screw, less loss of kinetic energy and eliminating noise.

Standardization

A range of testing grips specification standardized modular replacement design, switch grips easily and fast for different testing samples.

Easy Operation

Superior function with quick operation, and testing speed range is from 0.005 * 500 or 1000 mm/min.



Fig1.Computer Universal Testing Machines
Main Body & Control System

Thank You!!

Yasuda Seiki



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