KASONTEST

Push Boundaries, Achieve More

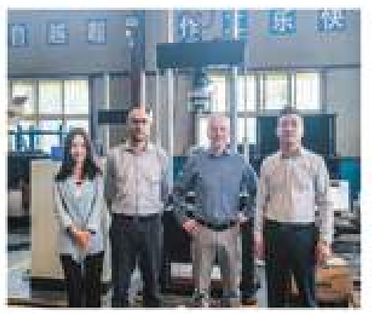
KASON 2025 SERIES

PRODUCT BROCHURE

testing machines catalogue

JINAN KASON
TESTING EQUIPMENT CO.,LTD.

COMPANY STRENGTH



Our Testing Machines Offer Exceptional Stability, Automation, Ensuring Efficient, Accurate Solutions.

01
Multi-field Talent Pool

We possess a talent pool spanning multiple fields.

02
Professional & Experienced Team

We have assembled a professional and experienced team.

03
Customized Solutions for Clients

We offer customized solutions tailored to clients' needs.

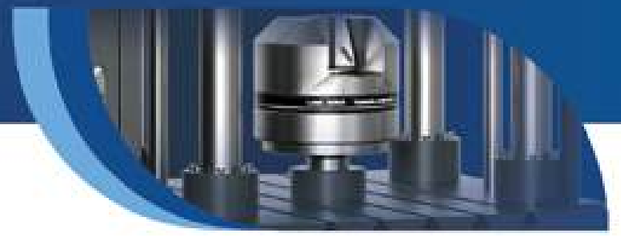
04
Comprehensive After-Sales Support

We provide comprehensive after-sales support services.

Integrity shapes quality, innovation leads the future.

PRODUCT INTRODUCTION

We are a leading enterprise specializing in the research, development, production, and manufacture of various types of testing machines. Leveraging our profound technical expertise and extensive industry experience, we are dedicated to providing our clients with a comprehensive range of testing machine products, including those for tension, compression, bending, impact, fatigue, and wear tests. Regardless of which type of testing machine you require, we are capable of offering tailored solutions based on your specific needs and application scenarios.



COMPANY PROFILE

Founded in 2009, it has gone through 16 eventful years. It is a high-tech enterprise with import and export rights. The company is committed to providing the market with professional and reliable material mechanics testing solutions, At present, the material testing system produced by the company successfully provides reliable mechanical testing solutions for the global aerospace, national defense, scientific research institutes, universities, engineering quality inspection, verification and certification, automotive and shipbuilding, rail transit, bridge civil, consumer electronics, textile, metallurgy, chemical, medical, electric power, import and export inspection and other industries.

PRODUCT LISTS

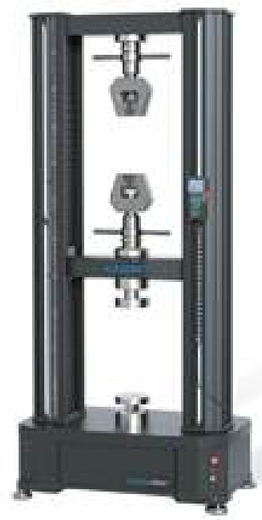
ELECTRONIC UNIVERSAL TESTING MACHINE

KASONTEST

- KASON ETM-103/203/503(1~5KN)

- KASON ETM-104/204(10~20KN)

- KASON ETM-504/105(50~100KN)



- With Hydraulic Grip
  KASON ETM-205/305E(200~300KN)

- With Flat Push Grip
  KASON ETM-305/405(300~400KN)

- With High Temperature Furnace
  KASON ETM-EG100/200/300(100~300KN)

- With High Low Temperature Chamber
  KASON EGD-100/200/300(100~300KN)

- KASON ETM-505/605/107(500~1000KN)

KASON-ETM SERIES/01-20kN

Single Column Electromechanical Universal Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	ETM-102	ETM-202	ETM-502	ETM-103	ETM-203	ETM-503
Load Capacity (kN)	0.1	0.2	0.5	1	2	5
Calibration Standard	Class 0.5 to ISO7500-1,ASTM E4					
Load Accuracy	Class 0.5					
Load Range	0.2%～100%F·S					
Resolution Of Displacement(um)	0.04					
Test Speed (mm/min)	0.001-500					
Test Speed Accuracy	Within ±0.5% of the value					
Tensile Space(mm)	800/1000 (heighten model)					
Crosshead Travel Space (mm)	800/1000 (heighten model)					
Grips	Wave grip or other grips as consumer's demand					
Dimension(mm)	520*400*1340 / 630*500*1480 (Packing size)					
Gross Weight(KG)	110/150 (Packing weight)					
Power Supply	AC220V±10%,50Hz/60Hz(can be customized)					

KASON-ETM-H SERIES/01-30kN

Double Columns Electromechanical Universal Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	ETM-102/202/302/502/103/203/303/503H	ETM-104H	ETM-204H	ETM-304H
Max. Load(kN)	01,02,05,1,2,3,5	10	20	30
Calibration standard	ISO 7500			
Load accuracy	Class 0.5			
Load range	0.4%～100%F·S			
Resolution of displacement(mm)	0.01			
Test speed(mm/min)	0.05-1000 stepless arbitrary setting			
Speed accuracy	within ±0.5% set speed			
Tensile space(mm)	670	615	633	633
Compression space(mm)	670	615	633	633
Working environment	Room temperature 10℃ ~ 30℃,relative humidity≤80%			
Power supply	AC220V±10%,50Hz/60Hz(can be customized)			
Grips	Wedge type, plate type and other grips as consumer's demand			
Dimension(mm)	450*335*1351	500*400*1495	500*400*1525MM	
Gross Weight(KG)	100	110	120	

KASON-ETM SERIES/10-300kN

Double Columns Electromechanical Universal Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	ETM-104	ETM-204	ETM-504	ETM-106	ETM-206	ETM-306
Load Capacity (kN)	10	20	50	100	200	300
Calibration Standard	Class 0.5 to ISO7500-1,ASTM E4					
Load Accuracy	Class 0.5					
Load Range	0.2%～100%F·S					
Resolution Of Displacement(um)	0.04					
Test Speed (mm/min)	0.001-1000			0.001-500	0.05-500	0.05-500
Test Speed Accuracy	Within ±0.5% of the value					
Crosshead Travel(mm)	1100			1100	1100	
Max. Tensile Testing Space(mm)	770			650	650	
Max. Compression Testing Space(mm)	900			1000	1000	
Test Width (mm)	450			550	600	
Dimension(mm)	850×550×1824			1108×798×2450	1108×798×2450	
Gross Weight(KG)	420			680	1800	
Power Supply	AC220V±10%,50Hz/60Hz					

Note:Extra wide and/or extra height frames are available.

Power supply system is completely customizable.Tensile space, test width, and speed is completely customizable.

KASON-ETM SERIES/500-1000kN

Double Columns Electromechanical Universal Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	ETM-505	ETM-605	ETM-107	ETM-505H	ETM-605H	ETM-107H
Load Capacity (kN)	500	600	1000	500	600	1000
Calibration Standard	Class 0.5 to ISO7500-1,ASTM E4					
Testing Force Accuracy	±0.5%					
Testing Force Range	0.4%～100%FS					
Force Resolution	1/500000FS					
Displacement Accuracy	≤±0.5%					
Displacement Resolution(mm)	0.04					
Speed Range (mm/min)	0.001-500		0.001-300	0.001-500	0.001-500	0.001-300
Crosshead speed accuracy	Within ±0.5% of the value					
Crosshead Travel(mm)	800		950	900		900
Max. Tensile Testing Space(mm)	700		850	800		800
Max. Compression Testing Space(mm)	700		850	800		800
Test Width (mm)	650		825	700		800
Compression Platen(mm)	Φ180		Φ180	Φ180		Φ180
Power Supply	6KW, AC380V±10%,50Hz/60Hz		6KW,AC380V±10%, 50Hz/60Hz	6KW, AC380V±10%,50Hz/60Hz		6KW,AC380V±10%, 50Hz/60Hz
Dimensions (mm)	1410*860*2803		1735 x 1000 x 3171	1450*1140 *2730		1700* 850*3500
Net Weight(kG)	About 4000kg		about 8000kg	about 4000kg		about 4000kg

KASON-EGD SERIES

high and low temperature tensile testing machines(-70℃～350℃)

TECHNICAL SPECIFICATIONS

MODEL	10EGD	20EGD	50EGD	100EGD	200EGD	300EGD
Load Capacity (kN)	10	20	50	100	200	300
Load accuracy	Class 0.5					
Testing Load Accuracy	±0.5%					
Testing Load Range(FS)	0.2%-100%					
Load Resolution	1/500,000FS					
Resolution of displacement(μm)	0.04					
Crosshead speed range(mm/min)	0.001-1000			0.001-500	0.001-500	0.001-500
Crosshead speed accuracy	±0.5% of set speed					
Crosshead Travel(mm)	1175			1085	1060	1235
Room temperature Tensile Space(mm)	845			650	650	650
Room temperature Compression	845			650	550	600
Room temperature Test width (mm)	450			500	600	600
Operating temperature range	-40℃/-60℃/-70℃ -350℃(according to customer's order)					
Cooling system	compressor					
Power	AC220V±10%, 50Hzcan be customized)					

KASON-EGDL SERIES

High and low temperature tensile testing machines(-196℃～350℃)

TECHNICAL SPECIFICATIONS

MODEL	10EGDL	20EGDL	50EGDL	100EGDL	200EGDL	300EGDL
Load Capacity (kN)	10	20	50	100	200	300
Load accuracy	Class 0.5					
Testing Load Accuracy	±0.5%					
Testing Load Range(FS)	0.2%-100%					
Load Resolution	1/500,000FS					
Resolution of displacement(μm)	0.04					
Crosshead speed range(mm/min)	0.001-1000			0.001-500	0.001-500	0.001-500
Crosshead speed accuracy	±0.5% of set speed					
Crosshead Travel(mm)	1175			1085	1060	1235
Room temperature Tensile Space(mm)	845			650	650	650
Room temperature Compression	845			650	550	600
Room temperature Test width (mm)	450			500	600	600
Operating temperature range	-40℃/-60℃/-70℃ -350℃(according to customer's order)					
Cooling system	compressor					
Power	AC220V±10%, 50Hzcan be customized)					

KASON-EG SERIES

High temperature tensile testing machines (200℃～1700℃)

TECHNICAL SPECIFICATIONS

MODEL	EG10	EG20	EG50	EG100	EG200	EG300
Max. Load(kN)	10	20	50	100	200	300
Load accuracy	Class 0.5					
Load range	0.2%～100%F·S					
Resolution of displacement	0.01mm					
Test speed(mm/min)	0.01-1000			0.01-500	0.01-500	0.01-500
Crosshead Travel(mm)	1175			1085	1060	1235
Tensile space(mm)	845			650	650	650
Compression space(mm)	845			650	550	600
Test width	450			500	600	600
Temperature ranage	200～1700℃(high-temperature furnace)					
Power supply	AC220V±10%,50Hz/60Hz(can be customized)					

KASON-HGW SERIES/500-1000kN

Computer Control Pipe Ring Stiffness Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	HGW 20E	HGW 50E	HGW 100E	HGW 200E	HGW 300E
Max. Load(kN)	20	50	100	200	300
Calibration standard	Class 0.5				
Load range	0.4%~100% F.S				
Load Resolution	1/500,000FS				
Deformation accuracy	≤±0.5% of 0.4%~100% of rated capacity				
Displacement resolution	0.001MM				
Test speed(mm/min)	0.01-1000	0.01-1000	0.01-500	0.01-500	0.01-500
Max Testing Space(mm)	According pipe diamter				
Crosshead speed	±0.5% of set speed				
Pipe diameter range	Customized (110mm-3000mmm)				
Effective testing width	According to customer's requirements, ≥ pipe diamter *20%				
Power supply	AC 220V/380V				

KASON-MWW SERIES

Wood-based Board Universal Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	MWW-10E	MWW-20E	MWW-50E
Max. Load(KN)	10	20	50
Calibration standard	Class 0.5		
Load range	0.4%~100% F.S		
Load Resolution	1/500,000FS		
Deformation	≤±0.5% of 0.4%~100% of rated capacity		
Displacement	0.001MM		
Test speed(mm/min)	0.01-1000	0.01-1000	0.01-1000
Max Testing	845	845	845
Test width	450	450	450
Crosshead speed	±0.5% of set speed		
Effective testing width	According to customer's requirements, ≥ pipe diamter *20%		
Power supply	AC 220V/380V		

KASON-ETM-W SERIES

Computer controlled multi-station tensile testing machine

TECHNICAL SPECIFICATIONS

MODEL	WDW-05E-5	WDW-10E-5	WDW-20E-5	WDW-50E-5	WDW-100E-5
Max. Load(kN)	0.5	10	20	50	100
Load accuracy	ISO 7500 Class 0.5				
Load range	0.4%～100%F·S				
Accuracy of test load	≤±0.5%				
Load resolution	1/ 500000				
Deformation accuracy	≤±0.5%				
Displacement resolution	0.001mm				
Test speed(mm/min)	0.01-1000	0.01-1000	0.01-1000	0.01-1000	0.01-500
Speed accuracy	within ±0.5% set speed				
Tensile space(mm)	845	845	845	845	650
Compression space(mm)	845	845	845	845	650
Test width(mm)	450	450	450	450	500
Power supply	AC220V±10%, 50Hzcan be customized)				

HYDRAULIC UNIVERSAL TESTING MACHINE

KASONTEST

- KASON HUT-605/206/306DJ (600KN~3000KN)

- KASON HUT-605/206/306DF (600KN~3000KN)

- KASON HUT-206 (2000KN)

- KASON HUT-106/126W (1000KN~1200KN)

- KASON HUT-305/605/106 (300KN~1000KN)

KASON-HUT SERIES 300-2000KN

Servo-Hydraulic Universal Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	HUT-305	HUT-605	HUT-106	HUT-106WG	HUT-126	HUT-206
Max. Load(kN)	300	600	1000	1000	1200	2000
Load Accuracy	Class 0.5, ISO 7500					
Load Measuring Range	1%～100%FS					
Load Resolution	1/500,000 of FS					
Accuracy Of Stress Rate Control	±0.5%					
Deformation Measuring Range	1%～100%FS					
Test Speed Accuracy	≤±0.5% of Indicating Value					
Displacement Eesolution (mm)	0.0025					
Displacement Accuracy	≤±0.5% of Indicating Value					
Tensile Testing Space(mm)	780	800	950	980	930	1250
Compression Space(mm)	550	650	700	700	650	850
Distance Between Two Columns(mm)	430	500	560	580	610	800
Piston Stroke(mm)	200	250	250	250	250	250
Testing Speeds(mm/min)	0~100	0~100	0~100	0~100	0~100	0~85
Load Frame Dimension(mm)	745X 685X 1905	760×690×2060	830×720×2160	860×740×2255	1100×850×3060	1100×850×3060
Oil Power Dimension(mm)	1200×680×750					
Weight(kg)	1500	1850	2450	2600	3600	5600
Power Supply	2.75KW	2.75KW	2.75KW	2.75KW	3KW	5KW
	3 phase, AC380V±10%,50Hz					

KASON-HUT-DF SERIES 300-3000KN

Single Test Space Servo-Hydraulic Universal Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	HUT-305DF HUT-305DJ	HUT-605DF HUT-605DJ	HUT-106DF HUT-106DJ	HUT-206DF HUT-206DJ	HUT-306DF HUT-306DJ
Max. Load capacity(kN)	300	600	1000	2000	3000
Load Accuracy	Class 0.5, ISO 7500				
Testing Load Accuracy	≤±0.5%				
Test force range	1%-100%F.S				
Test force resolution	1/500,000 of FS				
Deformation Measuring Range	1%～100%FS				
Deformation Accuracy	±0.5%				
Deformation Resolution	1/500,000 of FS				
Displacement Resolution(mm)	0.0025				
Clamping method	Hydraulic Automatic Clamp With Wedge grip (F SERIES) Hydraulic Automatic Clamp With Side action Grip (J SERIES)				
Max. Tensile Space(mm)	700	700	800	830	850
Distance Between Columns(mm)	430	580	680	810	940
Actuator Stroke(mm)	650	650	700	750	650
Round Insert(mm)	Φ13-Φ26; Φ26-Φ40	Φ13-Φ26; Φ26-Φ40	Φ13-Φ26; Φ26-Φ45	Φ15-Φ40; Φ40-Φ70	Φ15-Φ30; Φ30-Φ50; Φ50-Φ80;
Flat Insert(mm)	0-15;15-30	0-15;15-30	0-20;20-40	10-40;40-70	10-40;40-80
Compression Platens(mm)	Φ160				
Power	3 phase, 380VAC±10%, 50Hz				

KASON-HUT-W SERIES

Servo Steel Strand Universal Testing Machine

APPLICATION

LAW Computer Control Hydraulic Steel Strand Testing Machine is mainly used to execute the tension test for steel strand wires. Attached with simple accessories and devices, it can conduct compression and other tests. The load frame has four columns and two lead-screws, and equips half-open jaws, which has high stiffness and long clamping length. The oil cylinder is at the bottom of the load frame, and the lower crosshead is moved via the lead screws turning around, which is driven by chain and motor.It is widely used in different steel works, engineering areas, quality control department, universities and institutes as well as other areas and works.

TECHNICAL SPECIFICATIONS

MODEL	HUT-106W	HUT-126W
Max. Load(kN)	1000	1200
Load Accuracy	Class 0.5, ISO 7500	
Load Range	1%~100%FS	
Deformation Measurement Range	2%~100%of Extensometer	
Displacement resolution(mm)	0.0025	
Displacement value relative error	≤±0.5% of Indicating Value	
Max. Tension Test Space(mm)	1400	1500
Max. Compression Test Space(mm)	1100	1100
Distance between two columns(mm)	580	610
Max. Piston Stroke(mm)	250	
Testing Speeds(mm/min)	0~100	0~80
Load frame dimension	860×740×2600	900×760×2880
Weight(KG)	2750	3600
Tensile grip for 1*7 strand wire	Φ12.7-Φ21.6	Φ9.5--Φ28.6
Diameter of Round Specimens(mm)	Φ13-Φ26;Φ26-Φ45	
Thickness of Flat Specimens(mm)	0-20;Optional:20-40	
Width of Flat Specimens for Tensile Test(mm)	100X100	110X120
Compression Platen Dimensions(mm)	Φ160	
Power Supply	3-phase, AC380V, 50Hz (Can Be Customized)	

KASON-SXW SERIES

PC Strand Tensile Stress Relaxation Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON SXW 300	KASON SXW 500
Max. Load(kN)	300	500
Load Accuracy	≤±1%	
Load Range	12-300	20-500
Loading speeding	100-5000N/s, arbitrary setting	
Loading speed relaxation test space	2000mm	
Chuck displacement speed	0.001-25mm/min	
Accuracy of chuck displacement speed	±0.5%	
Displacement resolution	0.001mm	
Tensile stroke	0-100mm	
Creep of load cell	≤0.2% (within 30 minutes	
PC Strand	Φ9.53MM,Φ12.7MM, Φ15.24MM	
PC wire	Φ3~Φ9	
PC Bar	Φ7~Φ18	
Resolution of temperature sensor:	0.1℃	
Accuracy of temperature sensor	0.3℃	
Power supply	3-phase,5 wires (3 live lines L,1 null line N,1 earth	

KASON-MGW SERIES

Static Load Anchoring Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON MGW 5000	KASON MGW 6500
Max. Load(kN)	5000	6500
Load Accuracy	± 1%	
Load Range	4%~100%	
Loading speeding	±50000	
Loading speed relaxation test space	0~200	
Chuck displacement speed	±1%	
Accuracy of chuck displacement speed	1MPa~52MPa	
Displacement resolution	±1%	
Tensile stroke	±1%	
Creep of load cell	0.3%—100%F·S	
PC Strand	±1%	
PC wire	±0.5%	
PC Bar	±0.5%	
Resolution of temperature sensor:	200	
Accuracy of temperature sensor	3200	
Power supply	3-phase,AC380V, 50Hz (Can Be Customized)	

KASON-WAW-L SERIES

Horizontal Tensile Testing Machine Series

APPLICATION

WAW-L Series Horizontal tensile testing machine is designed specifically for wire, rope, chain, shackle and cable testing, these test frames use a horizontal test opening to accommodate long specimens and high elongation demands.
These test frames are powered by hydraulics for high strength testing and can be customized in length to meet a variety of application requirements as well as the grips can be modified to accommodate different shaped specimens and alternate grips can be provided for customers to interchange as and when their test requirements change. PC-based machine control software provided with the machine is upgraded to include data acquisition and data analysis.

STANDARDS

Load meets or exceeds the following standards: ASTM E4, ISO7500-1, EN 10002-2, BS1610, DIN 51221.
Strain measurement meets the following standards: ASTME83, ISO 9513, BS 3846 and EN 10002-4.

TECHNICAL SPECIFICATIONS

MODEL	KASON-WAW-500L	KASON-WAW-1000L	KASON-WAW-2000L	KASON-WAW-5000L	KASON-WAW-10000L	KASON-WAW-20000L
Max. testing load(kN)	500	1000	2000	5000	10000	20000
Amplifying multiple	1,2,5 (Three steps)					
Accuracy of specimen elongation	1%FS					
Test load accuracy	Better than 1% indicating value					
Resolution Of crosshead displacement	0.02mm					
Tensile testing space (mm)	500 1000 2000	500 1000 3000	500 1000 2000	500 1000 3000	1000 3000 5000	2000 5000 8000
Ram stroke (mm)	300 500 1000	300 500 1000	300 500 1000	300 500 1000	500 800 1000	500 800 1000

IMPACT TESTING MACHINE

KASONTEST

- KASON PIT Manual

- KASON PIT-M Semi Automatic

- KASON PIT-W Low Temperature

- KASON PIT-W-196 Ultra Low Temperature

- KASON PIT-T Touch Screen Display

- KASON PIT-CTW Digital And Computer Display

- KASON PIT-CW Low Temperature

- KASON PIT-CW-196 Ultra Low Temperature

KASON-PIT302 SERIES

Manual Pendulum Impact Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT302
Impact energy (J)	150,300
The Distance Between The	800
Impact Speed(m/s)	5.0
Pre-rising Angle Of The Pendulum	135°
Specimen Bearer Span(mm)	40+0.2
Round Angle Of The Jaw(mm)	R1-1.5(1mm is special ordered.)
Round Angle Of Impact Edge(mm)	R2-2.5(8mm is special ordered.)
Specimen holder support surface angle	11°
The impact of the blade angle	30°
The impact blade thickness (mm)	16
Power Supply	Manual
Standard Specimen Dimension(mm)	55x10x10 , 55x10x7.5 , 55x10x5
Dimensions (mm)	700×510×1350
Weight (kg)	320

KASON-PIT-M SERIES

Motorized Pendulum Impact Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT302M	KASON-PIT502M
Control type	150,300	250,500
Impact velocity (m/s)	5.2	5.4
Distance between pendulum center and sample center (mm)	750	800
Raised angle	150º	
Standard span (mm)	40+0.2	
Round angle of jaws (mm)	R1-1.5((1mm is special order)	
Round angle of striking edge (mm)	R2-2.5 or R8±0.05(8mm is special order)	
Specimen holder support surface angle	11°	
The impact of the blade angle	30°	
The impact blade thickness (mm)	16	
Size of specimen (mm)	55x10x10 , 55x10x7.5 , 55x10x5	
Power supply	3phs, 380V/220V±10%, 50Hz or specified	
Dimensions (mm)	2124 x 600 x 1340	2144 x 736 x 1390
Weight(KG)	550	750

KASON-PIT-T SERIES

Digital Display Pendulum Impact Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT302T	KASON-PIT502T
Impact energy (J)	150,300	250,500
Value of every grid (J)	0~300(2J), 0~150(1J)	0~500(5J), 0~250(2.5J)
Moment of pendulum(N·m)	0~300J(160.7695N·m), 0~150J(80.3848N·m)	0~500J(267.9492N.m), 0~250J(133.9746)
Impact velocity (m/s)	5.2	5.4
Distance between pendulum center and sample center (mm)	750	800
Raised angle	150º	
Standard span (mm)	40+0.2	
Round angle of jaws (mm)	R1-1.5((1mm is special order)	
Round angle of striking edge (mm)	R2-2.5 or R8±0.05(8mm is special order)	
Specimen holder support surface angle	11°	
The impact of the blade angle	30°	
The impact blade thickness (mm)	16	
Size of specimen (mm)	55x10x10 , 55x10x7.5 , 55x10x5	
Power supply	3phs, 380V/220V±10%, 50Hz or specified	
Dimensions (mm)	2124 x 600 x 1340	2144 x 736 x 1390
Gross weight(KG)	550	750

KASON-PIT-W SERIES

Computer Control Pendulum Impact Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT302W	KASON-PIT502W
Control type	150,300	250,500
Max. impact energy (J)	0~300(2J), 0~150(1J)	0~500(5J), 0~250(2.5J)
The distance between the pendulum shaft and impact point(mm)	0~300J(160.7695N·m), 0~150J(80.3848N·m)	0~500J(267.9492N.m), 0~250J(133.9746)
Impact velocity (m/s)	5.2	5.4
Distance between pendulum center and sample center (mm)	750	800
Raised angle	150º	
Standard span (mm)	40+0.2	
Round angle of jaws (mm)	R1-1.5((1mm is special order)	
Round angle of striking edge (mm)	R2-2.5 or R8±0.05(8mm is special order)	
Specimen holder support surface angle	11°	
The impact of the blade angle	30°	
The impact blade thickness (mm)	16	
Size of specimen (mm)	55x10x10 , 55x10x7.5 , 55x10x5	
Power supply	3phs, 380V/220V±10%, 50Hz or specified	
Dimensions (mm)	2124 x 600 x 1340	2144 x 736 x 1390
Gross weight(KG)	550	750

KASON-PITI-302XJ SERIES

Metal Charpy and IZOD Impact Testing Machine

TECHNICAL SPECIFICATIONS

MODEL		KASON-PITI-302XJ
Impact energy (J)	Charpy test	150,300
	Izod Test	300
mpact speed (m/s)	Charpy test	5.24m/s
	Izod Test	4.6868m/s
Moment of pendulum(N·m)	Charpy test	80.3848/160.7696
	Izod Test	160.7696
Specimen and distance of pendulum contact wires to the symmetry of gap(mm)	Charpy test	10±0.5
	Izod Test	22±0.5
Pendulum preparing angle		150°
Distance between pendulum center and sample center (mm)	Charpy test	750
	Izod Test	600
The angle of sample front and pendulum underside		100±1°
Size of specimen (mm)		10×10×70～126mm square sample, Φ11.43×71～127mm round sample
Power supply		3p 4-wire 380V 50Hz or specified
Dimensions (mm)		2124*600*1340
Weight(KG)		450

KASON-PIT-C SERIES

Metal Pendulum Impact Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT302C	KASON-PIT402C	KASON-PIT602C	KASON-PIT752C
Control type	300	450	600	750
Max. impact energy (J)	M=80.3848	M=160.7695	M=241.1543	M=321.539
Raised angle(mm)	150°±1°			
Distance between pendulum center and sample center (mm)	750			
Impact speed(m/s)	5.24			
Standard span(mm)	40			
Round angle of the jaw	R (1.0~1.5)mm (1mm is special ordered.)			
Angle of Taper of Supports	11°±1°			
Angle of Striking Tip	30°±1°			
Thickness of Striking(mm)	16			
Round corner of support jaw	R (1.0~1.5)mm (1mm is special ordered.)			
Blade curvature radius	R (2.0~2.5)mm (8mm is special ordered.)			
Standard specimen dimension(mm)	55x10x10 , 55x10x7.5 , 55x10x5			
Power supply	3phs, 380V/220V±10%, VAC50Hz or specified			

KASON-PIT-CT SERIES

Digital Display Pendulum Impact Testing Machine(300J/450J/600/750J)

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT302CT	KASON-PIT502CT	KASON-PIT602CT	KASON-PIT752CT
Type	C			
Control type	PLC control and LCD touch screen mode			
Max. impact energy(J)	300	450	600	750
Angle Resolution	0.025°			
Distance from the axis of support to the center of percussion(mm)	750			
Impact speed(m/s)	5.24			
Raised angle(mm)	150°±1°			
Standard span(mm)	40			
Radius of Curvature of Supports(mm)	1			
Round angle of the jaw	R1-1.5mm			
Angle of Taper of Supports	11°±1°			
Radius of Striking Edge(mm)	2			
Angle of Striking Tip	30°			
Thickness of Striking(mm)	16			
Round angle of impact edge	R2-2.5mm,R8±0.05mm			
Standard specimen dimension(mm)	55x10x10 , 55x10x7.5 , 55x10x5			
Power supply	3phs, 380V/220V±10%, VAC50Hz or specified			

KASON-PIT-CW SERIES

Computer Control Charpy Impact Testing Machine(300J/450J/600/750J)

TECHNICAL SPECIFICATIONS

MODEL	KASOIN-PIT302CW	KASON-PIT452CW	KAOSN-PIT602CW	KASON-PIT752CW
Max. impact energy(J)	300	450	600	750
Pendulum torque(N·m)	M=80.3848	M=160.7695	M=241.1543	M=321.539
Raised angle(mm)	150°±1°			
Distance from the axis of support to the center of percussion(mm)	750			
Impact speed(m/s)	5.24			
Standard span(mm)	40			
Round angle of the jaw	R (1.0~1.5)mm (1mm is special ordered.)			
Angle of Taper of Supports	11°±1°			
Angle of Striking Tip	30°±1°			
Thickness of Striking(mm)	16			
Round corner of support jaw	R (1.0~1.5)mm (1mm is special ordered.)			
Blade curvature radius	R (2.0~2.5)mm (8mm is special ordered.)			
Standard specimen dimension(mm)	55x10x10 , 55x10x7.5 , 55x10x5			
Power supply	3phs, 380V/220V±10%, VAC50Hz or specified			

KASON-PIT-CTW SERIES

Computer Control and digital display Impact Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT302CTW	KASON-PIT452CTW	KASON-PIT602CTW	KASON-IT752CTW
Max. impact energy(J)	300	450	600	750
Pendulum torque(N·m)	M=80.3848	M=160.7695	M=241.1543	M=321.5390
Raised angle(mm)	150°±1°			
Distance from the axis of support to the center of percussion(mm)	750			
Impact speed(m/s)	5.24			
Standard span(mm)	40			
Round angle of the jaw	R (1.0~1.5)mm (1mm is special ordered.)			
Angle of Taper of Supports	11°±1°			
Angle of Striking Tip	30°±1°			
Thickness of Striking(mm)	16			
Round corner of support jaw	R (1.0~1.5)mm (1mm is special ordered.)			
Blade curvature radius	R (2.0~2.5)mm (8mm is special ordered.)			
Standard specimen dimension(mm)	55x10x10 , 55x10x7.5 , 55x10x5			
Power supply	3phs, 380V/220V±10%, VAC50Hz or specified			

KASON-PIT-CH SERIES

Touch Screen variable-angle Pendulum Impact Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT452CH	KASON-PIT752CH
Max. impact energy(J)	450	750
Optional pendulum	150,300,450	150,300,450,600,750
Pendulum moment 450J	241.1543Nm	
Pendulum moment 600J	321.5390Nm	
Pendulum moment 750J	401.9238Nm	
Angle resolution	0.025°	
Striking velocity	5.24	
Support span°	40	
Radius of support curvature°	1~1.5	
Angle of support taper	11±1°	
Striking edge radius(mm)	2 (R2) or 8 (R8)	
Striking thickness(mm)	16	
Striking tip angle(mm)	30	
Specimen dimensions (mm)	55x10x10,55x10x7.5,55x10x5	
Power supply	1 kW,380-50/60-3	

KASON-PIT302-T SERIES

Digital display Low-temperature Automatic Charpy Impact Testing Machine(-60°c/80°c)

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT302T-60/80	KASON-PIT502T-60/80
Max. impact energy(J)	150,300	250,500
Value of every grid (J)	0~300(2J), 0~150(1J)	0~500(5J), 0~250(2.5J)
Moment of pendulum(N·m)	0~300J(160.7695N·m), 0~150J(80.3848N·m)	0~500J(267.9492N.m), 0~250J(133.9746)
Impact velocity (m/s)	5.2	5.4
Distance between pendulum center and sample center (mm)	750	800
Raised angle	150º	
Standard span (mm)	40+0.2	
Round angle of jaws (mm)	R1-1.5((1mm is special order)	
Round angle of striking edge (mm)	R2-2.5 or R8±0.05(8mm is special order)	
Specimen holder support surface angle	11°	
The impact of the blade angle	30°	
The impact blade thickness (mm)	16	
Size of specimen (mm)	55x10x10 , 55x10x7.5 , 55x10x5	
Cooling way	Compressor	
Capacity of sample box	20	
Range of low temperature	-60°c/80°c	
Speed of sending specimen	≤2S	
Power supply	3phs, 380V/220V±10%, 50Hz or specified	
Dimensions (mm)	2124 x 600 x 1340	2144 x 736 x 1390
Gross weight(KG)	550	750

KASON-PIT302T-/502T-196 SERIES

Digital display Low-temperature Automatic Impact Testing Machine(-196°C)

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT302T-196	KASON-PIT502T-196
Impact energy (J)	150,300	250,500
Value of every grid (J)	0~300(2J), 0~150(1J)	0~500(5J), 0~250(2.5J)
Moment of pendulum(N·m)	0~300J(160.7695N·m), 0~150J(80.3848N·m)	0~500J(267.9492N.m), 0~250J(133.9746)
Impact velocity (m/s)	5.2	5.4
Distance between pendulum center and sample center (mm)	750	800
Raised angle	150º	
Standard span (mm)	40+0.2	
Round angle of jaws (mm)	R1-1.5((1mm is special order)	
Round angle of striking edge (mm)	R2-2.5 or R8±0.05(8mm is special order)	
Specimen holder support surface angle	11°	
The impact of the blade angle	30°	
The impact blade thickness (mm)	16	
Size of specimen (mm)	55x10x10 , 55x10x7.5 , 55x10x5	
Cooling way	Liquid nitrogen	
Capacity of sample box	10	
Range of low temperature	-196°C	
Speed of sending specimen	≤2S	
Power supply	3phs, 380V/220V±10%, 50Hz or specified	
Dimensions (mm)	2124 x 600 x 1340	2144 x 736 x 1390
Gross weight(KG)	550	750

KASON-PIT-W SERIES

Computer Low-temperature Automatic Impact Testing Machine(-60°c/80°c)

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT302W-60/80	KASON-PIT502W-60/80
Max. impact energy(J)	150,300	250,500
Value of every grid (J)	0~300(2J), 0~150(1J)	0~500(5J), 0~250(2.5J)
Moment of pendulum(N·m)	0~300J(160.7695N·m), 0~150J(80.3848N·m)	0~500J(267.9492N.m), 0~250J(133.9746)
Impact velocity (m/s)	5.2	5.4
Distance between pendulum center and sample center (mm)	750	800
Raised angle	150º	
Standard span (mm)	40+0.2	
Round angle of jaws (mm)	R1-1.5((1mm is special order)	
Round angle of striking edge (mm)	R2-2.5 or R8±0.05(8mm is special order)	
Specimen holder support surface angle	11°	
The impact of the blade angle	30°	
The impact blade thickness (mm)	16	
Size of specimen (mm)	55x10x10 , 55x10x7.5 , 55x10x5	
Cooling way	Compressor	
Capacity of sample box	20	
Range of low temperature	-60°c/80°c	
Speed of sending specimen	≤2S	
Power supply	3phs, 380V/220V±10%, 50Hz or specified	
Dimensions (mm)	2124 x 600 x 1340	2144 x 736 x 1390
Gross weight(KG)	550	750

KASON-PIT-W SERIES

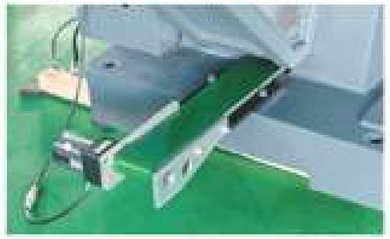
Computer Low-temperature Automatic Charpy Impact Testing Machine(-196°C)

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT302W-196	KASON-PIT502W-196
Impact energy (J)	150,300	250,500
Value of every grid (J)	0~300(2J), 0~150(1J)	0~500(5J), 0~250(2.5J)
Moment of pendulum(N·m)	0~300J(160.7695N·m), 0~150J(80.3848N·m)	0~500J(267.9492N.m), 0~250J(133.9746)
Impact velocity (m/s)	5.2	5.4
Distance between pendulum center and sample center (mm)	750	800
Raised angle	150º	
Standard span (mm)	40+0.2	
Round angle of jaws (mm)	R1-1.5(1mm is special order)	
Round angle of striking edge (mm)	R2-2.5 or R8±0.05(8mm is special order)	
Specimen holder support surface angle	11°	
The impact of the blade angle	30°	
The impact blade thickness (mm)	16	
Size of specimen (mm)	55x10x10 , 55x10x7.5 , 55x10x5	
Cooling way	Liquid nitrogen	
Capacity of sample box	10	
Range of low temperature	-196°C	
Speed of sending specimen	≤2S	
Power supply	3phs, 380V/220V±10%, 50Hz or specified	
Dimensions (mm)	2124 x 600 x 1340	2144 x 736 x 1390
Gross weight(KG)	550	750

KASON-PIT-CW SERIES

Computer Low-temperature Automatic Charpy Impact Testing Machine(-60°c/-80°c/-100°c)



TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT452CW-60/80/100	KASON-PIT602CW-60/80/100	KASON-PIT752CW-60/80/100
Max. impact energy(J)	450	600	750
Value of every grid (J)	M=80.3848	M=160.7695	M=241.1543
Moment of pendulum(N·m)	150°±1°		
Distance from the axis of support to the center of percussion(mm)	750		
Impact speed(m/s)	5.24		
Standard span(mm)	40		
Round angle of the jaw	R (1.0~1.5)mm (1mm is special ordered.)		
Angle of Taper of Supports	11°±1°		
Angle of Striking Tip	30°±1°		
Thickness of Striking(mm)	16		
Round corner of support jaw	R (1.0~1.5)mm (1mm is special ordered.)		
Blade curvature radius	R (2.0~2.5)mm (8mm is special ordered.)		
Standard specimen dimension(mm)	55x10x10 , 55x10x7.5 , 55x10x5		
Cooling way	compressor		
Capacity of sample box	20		
Range of low temperature	-60°c/-80°c/-100°c		
Speed of sending specimen	≤2S		
Power supply	3phs, 380V/220V±10%, 50Hz or specified		

KASON-PIT-CW SERIES

Computer Control Low-temperature Automatic Charpy Impact Testing Machine(-196℃)

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT452CW-196	KASON-PIT602CW-196	KASON-PIT752CW-196
Max. impact energy(J)	450	650	750
Pendulum torque(N·m)	M=80.3848	M=160.7695	M=241.1543
Raised angle(mm)	150°±1°		
Distance from the axis of support to the center of percussion(mm)	750		
Impact speed(m/s)	5.24		
Standard span(mm)	40		
Round angle of the jaw	R (1.0~1.5)mm (1mm is special ordered.)		
Angle of Taper of Supports	11°±1°		
Angle of Striking Tip	30°±1°		
Thickness of Striking(mm)	16		
Round corner of support jaw	R (1.0~1.5)mm (1mm is special ordered.)		
Blade curvature radius	R (2.0~2.5)mm (8mm is special ordered.)		
Standard specimen dimension(mm)	55x10x10 , 55x10x7.5 , 55x10x5		
Cooling way	Liquid nitrogen		
Capacity of sample box	20		
Range of low temperature	-196℃		
Speed of sending specimen	≤2S		
Power supply	3phs, 380V/220V±10%, VAC50Hz or specified		

KASON-PIT-D SERIES

Computer Control Fully Automatic High Temperature Impact Testing Machine(300℃~900℃)

TECHNICAL SPECIFICATIONS

MODEL	KASON-PIT452D1-3	KASON-PIT752D1-3
Maximum impact energy (J)	450	750
Optional simply supported beam pendulum (J)	150, 300	150, 300,450
Raised angle(mm)	150°±1°	
Angular resolution (°)	0.025	
Distance from the axis of support to the center of percussion(mm)	750	
Angular resolution (°)	0.025	
Air impact absorption	≤0.4%	
Standard span(mm)	40	
Round angle of the jaw	R (1.0~1.5)mm (1mm is special ordered.)	
Angle of Taper of Supports	11°±1°	
Angle of Striking Tip	30°±1°	
Thickness of Striking(mm)	16	
Round corner of support jaw	R (1.0~1.5)mm (1mm is special ordered.)	
Blade curvature radius	R (2.0~2.5)mm (8mm is special ordered.)	
Standard specimen dimension(mm)	55x10x10 , 55x10x7.5 , 55x10x5	
High temperature automatic sample	300℃~900℃	
Power supply	3phs, 380V/220V±10%, VAC50Hz or specified	
Dimensions (mm)	2150x2150x860	
Gross weight(KG)	1400	

KASON-CSL SERIES

Charpy Impact Specimen Broacher

APPLICATION

Designed for providing the specimens used in the impact testing tasks. Both manual type and hydraulic type are available to cutting the notch according to the “V” ASTM E23, ISO148 standards,U” DIN 50115 and ISO83 standards “Charpy Notch Impact Test Method for Metal Material” on the specimenfor only one time. At the same time, it has advantages of high precision, long life, low noise and concise appearance etc.

TECHNICAL SPECIFICATIONS

MODEL	KASON-CSL-A	KASON-CSL-B
Shape of sample notch	V-shape(2 mm) or U-shape (2mm)	V2 mm,U2mm, (U3mm, U5mm alternative)
Sample size(mm)	10×10×5(or 10×10×7.5,10×10×2.5)	
Cutting mode	Manual	AUTO
Broach material	W18Cr4V	
Broaching Speed	-	2.5m/min
Max. Dimension(mm)	350×350×600	660x500x1240
Weight(kg)	100	200
Power supply	-	380V 50Hz 0.4Kw

KASON-L71-UV-E SERIES

Impact Specimen Gap (double knives) power-driven Automatic Broaching Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-L71-UV-2E	KASON-L71-UV-5E
Shape of sample notch(mm)	V 2,U 2	V 5,U 5
Sample size(mm)	55x10x10 , 55x10x7.5 , 55x10x5	
Drive mode	High precision ball screw	
Broaching Speed(m/min)	2.3	
Broach material	W18 Cr4V	
Power supply	3-phase 4-wire 380V 50Hz 0.5KW	
Max. Dimension(mm)	350*570*1250	
Weight(KG)	180	

KASON L71-UV-E-3 Triple Specimen Chamber Motorized Charpy Notch Broaching Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-CSL-E2-3	KASON-CSL-E5-3
Shape of sample notch(mm)	V 2,U 2	V 5,U 5
Of Samples at one cycle time	3	3
Broacher Travel(mm)	340±10	
Sample size(mm)	55x10x10 , 55x10x7.5	
Drive mode	High precision ball screw	
Broaching Speed(m/min)	2-3	
Broach material	W18 Cr4V	
Power supply	3-phase, 5-line,220V 50Hz	
Max. Dimension(mm)	690 x 650 x 1550	
Weight(KG)	255kg	

KASON-DWTT SERIES

Impact Test Low-temperature Chamber

TECHNICAL SPECIFICATIONS

MODEL	KASON-DWTT-80D	KASON-DWTT-100D
Temperature range(℃)	+30~-80℃	+30~-100℃
Temperature Control Accuracy	±0.5°	
Temperature uniformity	≤2℃	
Cooling speed （℃/min）	+30℃ -40℃, about 1.5℃/min -40℃ - -60℃, about 1.2℃/min -60℃ - -80℃, about 0.8℃/min	+30℃ -40℃, about 1.5℃/min -40℃ - -60℃, about 1.2℃/min -60℃ - -80℃, about 0.8℃/min -80℃- -100℃, about 0.8℃/min
Camera acquisition pixels	About 60L	
Objective lens magnification	1minute ~ 9999 minutes, resolution:1minute	
Projection lens magnification	1510×1010×1160 (LxWxH)	
Light source (LED)	570×390×230	
Power supply	Stainless steel	
Dimension	22 pcs (Falling impact specimen size : 305×76.2mm, thickness is according to original material; Specified specimen size in national standard,: 305±5×76.2±1.5mm)	
Timer	1 - 59 min, resolution 1s	
Cooling medium	Cooling part: ethyl alcohol Heating part: air	
Working power	380V±10%, 50Hz, 3.2kW	
Mode of refrigeration	Compressor refrigeration	

KASON IMG-15 Impact specimen notch imaging instrument

TECHNICAL SPECIFICATIONS

MODEL	KASON-IMG-15
Display size	15 inches
Working table square shape	110x125mm;Round table Φ90 mm;Workbench glass diameter: Φ70 mm
Stroke of working table	Longitude: ±10mm,Latitude: ±10mm,Rise and fall: ±12mm
Scope of revolving of the worktable	0 ° -360 °
Camera acquisition pixels	5 million
Objective lens magnification	2.5X
Projection lens magnification	20x
Light source (LED)	12V,100W
Power supply	220V,50HZ
Dimension	450×350×650mm
Weight(KG)	about 26kg

KASON-CST-50 SERIES

U/V Notch Projector

APPLICATION

Impact specimen U/V notch projector is a supplemental equipment for impact test, which is mainly used to check the accuracy of the impact specimen U/V notch. Users can put the notched specimen on projector working table and compare the projection image with the standard plate to identify the quality of the specimen notch.

TECHNICAL SPECIFICATIONS

MODEL	KASON-CST-50M
Screen diameter	Φ200mm
Square work table dimension	110*125mm
Round work table dimension	Φ90mm
Work table glass diameter	Φ70mm
Work table rotary range	±10 x ±10 x ±12mm
Instrument Magnifications rate	0°-360°
Objective lens magnification	50*
Projection objective magnification	2.5*
Light source	20*halogen tungsten lamp(DC12V) 100W
Dimension	510*220*600 mm
Weight	18KG
Power supply	AC 220V, 50HZ,150W

KASON-CDW SERIES

Impact Testing Low Temperature Chamber

APPLICATION

DWC Series Temperature Chamber is designed according to the standard of 'Charpy Notch Impact Test Method for Metal Materials' and adopts compressor cooling technology, which is made up of two sections(Low temperature grade and high temperature grade). It utilizes the heat balance principle and cycle stirring method to realize the constant temperature cooling to impact specimen with the reliable performance.

TECHNICAL SPECIFICATIONS

MODEL	KASON-CDW-40	KASON-CDW-60	KASON-CDW-80	KASON-CDW-100	KASON-CDW-196
Temperature range	+30~-40°	+30~-60°	+30~-80°	+30~-100°	+30~-196°
Temperature Control Accuracy	±0.5°				±2°C
Effective working space (mm)	120×120×80				240×150×150
Specimen dimension	10×10×55mm				
Specimen quantity	More than 60 pcs				
Temperature dropping speed°C/min)	+30°C~0°C 1.2°C/min	+30°C~0°C 2°C/min	+30°C~0°C 2°C/min	+30°C~0°C 2°C/min	2°C ~5°C / min
	0°C~-20°C 0.8°C/MIN	0°C~-20°C 1.5°C/MIN	0°C~-20°C 1.5°C/MIN	0°C~-20°C 1.5°C/MIN	
	-20°C~-40°C 0.5°C/min	-20°C~-40°C 1.0°C/min	-20°C~-60°C 1.0°C/min	-20°C~-40°C 1.0°C/min	
		-40°C~-60°C 0.7°C/min	-60°C~-80°C 0.7°C/min	-60°C~-100°C 0.7°C/min	
Mode of refrigeration	Compressor refrigeration				Liquid nitrogen
Cooling Medium	Ethanol or other unfrozen liquid				

KASON-JL/DWTT SERIES

Drop Weight Impact Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-JL-2000	KASON-JL-3000	KASON-JL-6000
Maximum Energy(J)	2000	3000	6000
Minimum Energy(J)	300	350	750
Maximum Tup Mass(kg)	70	100	200
Tup Mass Accuracy	±1%		
Drop Height(mm)	750～2915	750～3062	750～3062
Velocity of drop(m/s)	3.8～7.8		
Speed of tap raise(m/s)	7		
Height Accuracy(mm)	≤±10		
Hardness of tup nose	HRC58-62		
Radius Of Tup Nose(mm)	R25.4±0.1		
Sample Centered Error(mm)	±1		
Support Anvil Span	P-1:305, P-2、P-3:100		
Specimen Dimension	P-1:(360±1)×(90±2)×(25±2.5)		
Power Supply	380v±10%,50/60Hz		

APPLICATION

This type of machine is especially designed for drop-weight tear tests of ferritic steels and line pipe.

TECHNICAL SPECIFICATIONS

MODEL	KASON-DWTT-20000	KASON-DWTT-30000	KASON-DWTT-50000	KASON-DWTT-800000	KASON-DWTT-1000000
Maximum Energy(J)	20000	30000	50000	80000	100000
Minimum Energy(J)	8000	8000	20000	20000	20000
Tup Mass(kg)	630	630	1600	1620	1620
Tup Mass Accuracy	±1%				
Weight mass	120	390	360	780	1380
Weight mass accuracy	±0.5%				
Total weight of tup	750	1020	1960	2400	3000
Drop Height(mm)	1275～2800	1275～3000	1275～2610	1275～3400	1275～3400
Velocity Of Drop(m/s)	5～7.67	5～7.67	5～7.14	5～8.16	5～8.16
Height Accuracy(mm)	≤±10				
Hardness Of Tup Nose	HRC58-62				
Radius Of Tup Nose	R25±0.1mm				
Sample Centered Error	±1mm				
Specimen Dimension	(300±5)*(75±1.5)*(3-50)mm;(305±19)*(76.2±3)*(3-50)mm P-3:(130±1)×(50±1)×(16±0.5)				

KASON-BT-10 SERIES

Wire Repeated Bending Test Machine

APPLICATION

Mainly used for repeated bending test of metal wire and testing performance and defect of bearing plastic deformation at the process of bending metal wire repeatedly.You can operate on digital display screen and it shows bending times. It can also process sheet metal bending test after using sheet clamping device.

TECHNICAL SPECIFICATIONS

MODEL	KASON-BT-10
Sample Diameter(mm)	Φ1-Φ10
Sample Length(mm)	150-200
Bending Angle	±90°
Bending Speed（times/min)	≤ 60
Numeration Range(time)	0-9999
Motor Power	1.5Kw
External Dimensions(mm)	600×330×1000
Tester Weight	210 Kg

KASON-TR-6 Metal Wire Torsion And Winding Test Machine

APPLICATION

Mainly used for repeated bending test of metal wire and testing performance and defect of bearing plastic deformation at the process of bending metal wire repeatedly.You can operate on digital display screen and it shows bending times. It can also process sheet metal bending test after using sheet clamping device.

TECHNICAL SPECIFICATIONS

MODEL	KASON-TR-6
Sample Diameter(mm)	Φ1-Φ6
Max distance between two chucks(mm)	500
Effective working length of mandrel (mm)	100
Winding speed (rpm)	15/20/30/60
Motor Power	1.5Kw,220V, 50Hz
External Dimensions(mm)	1645×405×1025
Tester Weight	265 Kg

KASON-KSTT SERIES
Wire Torsion Testing Machine

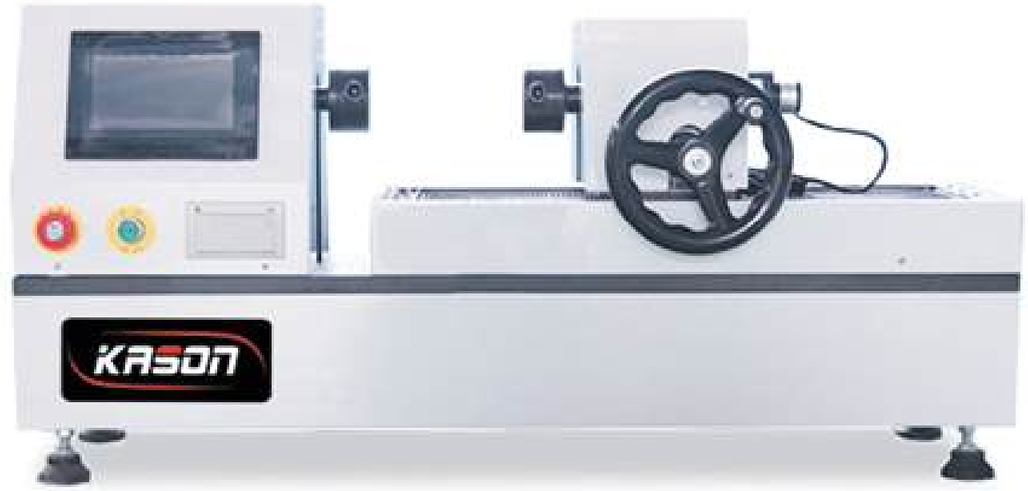
APPLICATION

Used to test the plasticity of metal wires and ropes under torsion condition. Surface flaws of steel wires may be shown during the testing process. It is most suitable for quality inspection of departments related to steel wire. The revolution is displayed on a 4-digit LED. Max. displayed revolution is 999.9. The revolution value is automatically held at the break of specimens. It conforms to standards of ASTM A938, ISO7800.

TECHNICAL SPECIFICATIONS

MODEL	KASON-KSTT-3	KASON-KSTT-6	KASON-KSTT-10
Max. Clamp metal wire diameter (mm)	Φ1-3	Φ1-6	Φ3-10
Parallelism of the full moving guide	≤0.2		
Distance between the grips (mm)	320	500	500
Rotation speed adjusting range (r/min)	60/90/120/180/300	60/90/120/180	
Torsion speed error (%)	＜±10%		
Min. number of circle values	0.1		
Two chuck alignment(mm)	＜Φ0.4		
Jaw hardness(HRC)	50-65		
Weights error (%)	±0.5		
Work Noise (dB)	≤70		
Min. revolutions reading values(r)	1		
Power Supply	AC 220V±10%,50Hz		

KASON-N20M SERIES
Manual Torsion Testing Machine



APPLICATION

Mainly carry out torsion test on materials, by manual loading, high-precision torque sensor to detect the torque, photoelectric encoder to detect the rotation angle, and digital display of the detection result. It is mainly used in the mechanics laboratories of relevant scientific research departments, various colleges and universities, and industrial and mining enterprises to determine the torsional properties of materials.

TECHNICAL SPECIFICATIONS

MODEL	KASON-N20M	KASON-N50M	KASON-N100M
Max torque（N/m)	20	50	100
Test class	1 class		
Torque test range(F·S)	2%～100%		
Relative error of torque indication	±1%		
Angle value accuracy (%)	≤±1		
Angledisplay resolution(°)	0.1°		
Max torque angle (mm)	99999°		
Effective distance between chucks (mm)	0—260		
Power	220V±10%，50Hz		

KASON-N200W SERIES

Computer Control Torsion Testing Machine

APPLICATION

This series materials torsion testing machine is used for torsion test of metal materials, nonmetallic materials, composite materials and components.

STANDARDS

- ASTM A938 Torsion Testing of Wire
- ASTM D7860-14 Torque Retention for Child Resistant Packaging
- ASTM F543 Metallic Medical Bone Screws
- ASTM F1717 Spinal Implant Constructs
- ASTM F2346 Characterization and Fatigue Testing of Spinal Intervertebral Disc Prostheses
- IEC 888 Zinc Coated Steel Wires
- ISO 7800 Torsion Testing Wire

TECHNICAL SPECIFICATIONS

MODEL	KASON-NDW-N200W	KASON-NDW-N500W	KASON-NDW-N1000W	KASON-NDW-N2000W	KASON-NDW-N3000W	KASON-NDW-N5000W	KASON-NDW-N10000W
Maximum TorqueN/m	200	500	1000	2000	3000	5000	10000
Machine level	0.5 Class						
Torque Test Range	0.4%～100%F·S						
Torque value relative error	≤±0.5%						
intersection angle display r esolution(°)	0.002°						
Control method	Close-loop control of torque,torsion angle and deformation						
Max. torsion Angle	99999°						
Torsional angular rate control range (°/min)	0.01-15000						
Chuck spacing effectively	500mm					650mm	
Power Supply	220V±10%，50Hz						

KASON-BW SERIES

Torsion Testing Of Fasteners/Bolt/Nut

APPLICATION

It is mainly used to check the material performance of bolts nuts, double-screw bolts etc., fastener and connection pairs of various grade 12.9, 10.9, 9.8, 8.8. Can measure the preload, fastening axial force F, yield fastening axial force, yield clamp force, limit clamp force, safety load, breaking load, torque T, angle etc.

TECHNICAL SPECIFICATIONS

MODEL	KASON-BW
Bolt force accuracy	± 1%
Effective test space	0~650mm (stepless adjustable)
Rotation Angle Accuracy	0.01°
Rotation Method	Tight nut/ Tight bolt
Rotation direction	Bi-Direction
Humidity range	0% to 90% non-condensing
Storage temperature	-40 to +66oC (-40 to +150oF)
Power supply	50Hz, 220V

KASON-BT/GW SERIES

Steel Rebar Bending Testing Machine

APPLICATION

Bending Testing Machine is special equipment to do bending test for reinforce bar, steel bar and pipe. Itcan do bending test in both directions according to standards requirement. It conforms to standards ASTMA615-89, ASTM A615M-89, ISO 7438:1985, and ISO8491:1986 (E).

TECHNICAL SPECIFICATIONS

MODEL	KASON-BT40E	KASON-GW-H40A	KASON-BT50E	KASON-GW-H50A
Loading method	KASON-BT40E/KASON-BT50E (Electric model) KASON-GW-H40A/ KASON-GW-H50A (Hydraulic model)			
Bending Diam Of Steel Bar	Φ6-Φ40mm		Φ6-Φ50mm	
Forward Bending Angle	0-180° (the angle can be set freely in the range)			
Reverse Bending Angle	0°-90° (the angle can be set freely in the range)			

KASON-BT 300A SERIES

Hydraulic Steel Rebar Bending Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-BT160L	KASON-BT300L
Max pushing force(kN) Maximum thrust	160	300
Working operation(mm)	300	300
Max working pressure(Mpa)	25	25
Bending angle range	0-180°	0-180°
Bending circle sample diameter(mm)	Φ6-Φ32	0-180°
Reverse bending indenter diameter	φ30, φ40, φ50, φ60, φ70, φ80, φ90, φ100, φ110, φ125, φ168, φ192, φ216mm	
Maximum distance of rollers(mm)	320	
Cylinder loading speed(mm/min)	About 120	
Main engine dimensions(mm)	1200 ×550 ×2000	
The engine power(kW)	1.1	
The host weight(kg)	About 1100	About 1200

KASON-BT-A SERIES

Computer Control Bending Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-BT200A	KASON-BT200A	KASON-BT1000A	KASON-BT2000A
Max. Vertical bending load (kN)	200	500	1000	2000
Max. Horizontal pressing load (kN)	100	250	500	1000
Span range (mm)	40-300	50-300	60-300	80-400
Roller diameter (mm)	Φ30	Φ50	Φ60	Φ80
Roller length (mm)	120	160	200	260
Piston stroke (mm)	250		300	
	160		200	
Max. Speed (mm/min)	350	180	250	130
	350	180	230	120
Power supply (kW)	4.4		11	
Roller diameter available (mm)	6,8,10,12,14,18,20,24,28,30,32,36,40,44,46,50,54,56,60,70,80,90,100,110,120,128,160,180			

KASON-CTM SERIES

Digital Display Compression and Flexural Testing Machine

APPLICATION

This testing machine is used to perform flexural tests on concrete specimen and compressive tests on mortar specimen.

STANDARDS

ISO 679, ASTM C 109 and C 349, EN196-1, EN ISO 7500-1, EN 10002-2, NF P18411 Class 0.5,EN 1015-11, DIN 1164 GOST 26798.1,BS 4550,BS 3892-1, 4551-1, ISO 679,EN 459-2, EN 13454-2;

TECHNICAL SPECIFICATIONS

MODEL	KASON-CTM305S	KASON-CTM 305F	KASON-CTM 305DW	KASON-CTM 305DGW
Control mode	Hydraulic model		Electronic model	
Maximum compression force(kN)	300			
Maximum flexural force(kN)	Not available	10 / 20 / 30	-	10
Test Accuracy	Class 1			
Load test Range	4%-100% of FS		2%-100% of FS	
Flexure fixture roller diameter(mm)	Dia 30			
Max. distance between two platen (mm)	165	165	180	180
Compression platens size (mm)	Φ160	Φ160	Φ280	Φ280
Distance between upper and lower rollers (mm)	165			
Max. piston stroke (mm)	50	50	50	50
Power	3ph, AC 380V±10%,50-60Hz		3ph, AC 220V±10%,50-60Hz	

KASON-CTM305E-W SERIES

Electric Cement mortar Compression & Flexural Tester

TECHNICAL SPECIFICATIONS

MODEL	KASON-CTM305E-W	KASON-CTM305EF-W
Maximum compression force(kN)	300	300
Maximum flexural force(kN)	Not available	10 / 20 / 30
Test Accuracy	Grade 0.5	
Load test Range	1%-100% of FS	
Max. distance between Compression platen	200	
Upper and low Compression platens size (mm)	120(upper) /160(low)	
Lower Compression platens size (mm)	160	
Max. piston stroke (mm)	80	
Column clearance (mm)	210	
Power	Single phase 220 V (110 V), 50-60 Hz	
Dimensions (mm)	1120*480*1260	

KASON-CTM305H-W SERIES

Hydraulic Cement Compression & Flexural Tester

TECHNICAL SPECIFICATIONS

MODEL	KASON-CTM305H-W	KASON-CTM305HF-W
Maximum compression force(kN)	300	300
Maximum flexural force(kN)	Not available	10 / 20 / 30
Test Accuracy	Grade 1	
Load test Range	4%-100% of FS	
Max. distance between two platen (mm)	180	
Upper and low Compression platens size (mm)	Φ120	
Max. piston stroke (mm)	60	
Column clearance (mm)	210	
Power	AC 380V±10%,50-60Hz	
Size	880*370*1220 mm	
Net weight	600kg	

KASON CTM Series Digital display compression testing machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-CTM106S	KASON-CTM206S
Max. load	1000kN/100Ton	2000kN/200Ton
Machine Class	1 class	
Min. Resolution	0.01kn	
Testing space adjust method	Manual adjust	
Max. Piston stroke	30mm	
Diameter of Piston	250mm	
Distance between platens	320mm	
Upper and lower platen size	220*250mm	
Display	LCD display	
Power supply	0.75KW, AC380V/50Hz/3 phase	
Size	880*370*1220 mm	
Net weight	600kg	

KASON-CTM SERIES

Digital display electric screw adjust compression testing machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-CTM206-SD	KASON-CTM306-SD
Max. load	2000kN/200Ton	3000kN/300Ton
Machine Class	1 class	
Minimum resolution	0.1KN	
Range of test force	4% ~100%FS	
Testing space adjust method	Electric adjust	
Indicating value accuracy	±1%	
Piston stroke	50mm	
Distance between platens	320mm	400mm
Upper and Lower platen size	220×250mm	300×300mm
Display	LCD	
Power supply	AC380V/50Hz/3 phase	
Size	880×370×1220 mm	1000x500x1450 mm
Weight	800kg	950Kg

KASON-CTM-H SERIES

Automatic Concrete Compression Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-CTM106HW	KASON-CTM206HW	KASON-CTM306HW	KASON-CTM506HW	KASON-CTM506E	KASON-CTM506F
Load capacity(kN)	1000	2000	3000	5000	5000	5000
Test Accuracy	Class 0.5					
Force range	1%-100%FS					
Column spacing(mm)	520	520	540	540	1000 x 800	1000 x 800
Plate adjustment	Spacing block				Screw adjustment	
Compression platens(mm)	Φ300	Φ300	Φ300	Φ300	500*500	700*800
Piston stroke(mm)	120	120	120	120	150	150

KASON-CTM506 SERIES

Automatic Concrete Compression Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-CTM506F	KASON-CTM506E
Max. Capacity(KN)	5000	5000
Measuring range	2%-100% of FS	
Relative error of reading	≤±1%	
Max. vertical clearance between platens(mm)	1000	1500
Upper and low compression platen (mm)	400*400	700*800
Max. travel of piston(mm)	200	150
Max. piston speed (mm/min)	35	50
Distance between two columns(mm)	560	1000 x 800
Power supply	AC380V/220V/50Hz/(can be customized)	

KASON-RCW-E SERIES

Electromechanical Creep Relaxation Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-RCW-30E	KASON-RCW-50E	KASON-RCW-100E	KASON-RCW-200E
Load capacity(kN)	30	50	100	200
Calibration accuracy	Class 0.5			
Load range	0.4%-100%FS			
Load accuracy	≤±0.5% of indicating			
Load fluctuation	±0.5%			
Absolute resolution	1/500000 (the whole resolution remains unchanged)			
Loading Speed(mm/min)	0.001～100mm/min (stepless speed regulation)			
Deformation measuring range	0～10,0～12,0～15,0～25mm(optional)			
Deformation measurement error	±0.001mm			
Deformation measurement resolution	0.001mm			
Ttemperature range	200℃-1200℃			
Temperature fluctuation	200～600:±2 °C; 600～800:±3°C; ≥900:±3 °C			
Effective soaking zone length	150mm,180mm, 200mm(optional)			

KASON-MCR SERIES

Mechanical Creep And Stress Rupture Testing Machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-MCR-30	KASON-MCR-50	KASON-MCR-100
Maximum force	30kN	50kN	100kN
Load range	1%-100%FS		
Load accuracy	≤±0.5% of indicating		
Lower pull rod speed	0.01～90mm/min		
Lower pull rod travel	0-200mm		
Automatic level adjustment range	0.1mm		
Lever arm ratio	1:50		
Center alignment accuracy	≤10%		
Timing accuracy	±0.1%		
Deformation measurement resolution	0.001mm		
Ttemperature range	200℃-1200℃		
Temperature fluctuation	200～600:±2 °C; 600～800:±3°C; ≥900:±3 °C		
Effective soaking zone length	150mm, 200mm(optional)		
Power supply	Power supply		

KASON-RCW-E SERIES

Multi-station Computer Control Electronic high temperature creep testing machine

TECHNICAL SPECIFICATIONS

MODEL	KASON-RCW-30E	KASON-RCW-50E	KASON-RCW-100E	KASON-RCW-200E
Load capacity(kN)	30	50	100	200
Calibration accuracy	Class 0.5			
Load range	0.4%-100%FS			
Load accuracy	≤±0.5% of indicating			
Load fluctuation	±0.5%			
Absolute resolution	1/500000 (the whole resolution remains unchanged)			
Loading Speed(mm/min)	0.001～100mm/min (stepless speed regulation)			
Deformation measuring range	0～10,0～12,0～15,0～25mm(optional)			
Deformation measurement error	±0.001mm			
Deformation measurement resolution	0.001mm			
Ttemperature range	200℃-1200℃			
Temperature fluctuation	200～600:±2 °C; 600～800:±3°C; ≥900:±3 °C			
Effective soaking zone length	150mm,180mm, 200mm(optional)			

KASON-GBW SERIES

Erichsen Cupping Testing Machine

APPLICATION

This machine adopts mechatronics design, neat and elegant appearance. It is a precision equipment for performing process performance tests on metal sheets and strips. It can realize GB/T4156-2020 / ISO 20482-2013 "Metal Material Sheets and Strips Eric The Mori Cupping Test Method" meets the requirements of JJG 583-88 and JB/T7408-94, and also adopts the standard of ASTM

metal sheets and strips during the test.

TECHNICAL SPECIFICATIONS

MODEL	KASON-GBC 60W	KASON-GBC 100W	KASON-GBC 300W
Max.Cupping Load	60kN	100kN	300kN
Load accuracy	±1%/±0.5%		
Stroke speed	0.005-250mm/min		
Specimen thickness	Standard 0.1-2mm,(Non-Standard 0.1-3mm)		
Max. Specimen Width	100mm	110mm	140mm
Test mold specifications (Standard)	Punch diameter:Φ20±0.05mm		
Test mold specifications (Non-Standard)	Punch diameter : Φ15±0.05mm , Φ8±0.02mm, Φ3±0.02mm Press mold hole diameter : Φ18±0.1mm,		
Display resolution	0.01mm		

KASON-MMW-1 SERIES

Universal Friction And Wear Testing Machine

APPLICATION

The tile abrasion testing machine can simulate rolling, sliding and rolling & slidingcombined movement under the certain contact pressure to complete point, line and plane simulating tests. It can be used to evaluate the friction and wear performance of lubricant, metal, plastics, coating,rubber,ceramics etc. It can not only content with the needs of traditional petroche mical industry to research, develop and inspect the vari-

bustion engine oil and gear oil. Also it can be tested under dry condition, but also the needs of simulating evaluation to new material development and new technology research.

TECHNICAL SPECIFICATIONS

MODEL	KASON-MMW-1
Load range	10~1000N(stepless)
Relative error of load indicating value	±1%
Friction torque measuring range	2.5N.m
Relative error of friction torque indicating value	±2%
Rotate speed range of spindle	1~2000r/min, linear velocity up to over 4 m/s.
Test medium	oil,water,slurry,abrasive etc.
Temperature control range	Room temperature~200°C
Max. Distance between spindle of the Machine and lower friction coupling pate	>75mm
Time control range	10s~9999min
Power	220V, 50Hz.

KASON-TLS SERIES

Spring Tensile And Compression Testing

APPLICATION

This machine is based on the country's spring and compressive tester standards of technical requirement is made, professional design of automatic control and data acquisition system, realized the data acquisition and control process full digital adjustment. Can the compression spring, dish above precision extension spring, spring, spring, leaf-spring tower, card of spring, spring, spring, composite, gas springs, die spring, and special spring precision tension of the spring, stress, displacement, stiffness and strength test and analysis.

TECHNICAL SPECIFICATIONS

MODEL	KASON-TLS-200T	KASON-TLS-500T	KASON-TLS-1000T	KASON-TLS-2000T
Capacity	200N	500N	1000N	2000N
Testing machine grade	Class 1			
Display type	7 inch industrial touch screen			
Measuring range	1%-100%			
Load resolution	0.1N			
Relative error of zero point	±0.1%			
Relative error of test force	±1.0%			
Resolution of displacement	0.001mm			
Displacement indication error (micron)	≤±（50+0.15l）			
Test space	300mm/500 optional			
Plate	100mm			
Parallelism error of up and down pressure plate	≤0.10 mm			
Test speed range	0.01mm/min-500mm/min			
Dimensions	About 435*275*850mm			
Weight	About 100kg			
Power supply	AC 220V±10% 50-60Hz			

KASON-TN SERIES

Automatic Digital Spring Torque Tester

APPLICATION

It is mainly used for testing the torsion angle and torsional moment of torsion spring, spiral spring, elastic element and friction mechanism. It can measure the corresponding torque at a certain twist angle, and can also measure the corresponding twist angle at a certain torque.

TECHNICAL SPECIFICATIONS

MODEL	KASON-TN-5AT	KASON-TN-10AT
Max Torque	5N.m	10N.m
Torque zero relative error	±0.1%	
Torque indication relative error	±0.5%	
Torque indication repeatability relative error	±2%	
Twist angle resolution	0.1°	
Torsion angle indication error	±1%°	
Upper and lower twist plate height	120mm	
Torsional disk diameter	135mm	
Size	520*300*480mm	
Net weight	26kg	
Power supply	AC 220V±10% 50Hz	

KASON-TPL SERIES
Automatic Spring Fatigue Testing Machine

APPLICATION

This machine is mainly suitable for axial fatigue life test of various helical cylindrical springs, gas springs, elastomers, elastic components, etc.

TECHNICAL SPECIFICATIONS

MODEL	KASON-TPL2T	KASON-TPL3T	KASON-TPL5T	KASON-TPL10T	KASON-TPL20T
Max force	2000N	3000N	5000N	10000N	20000N
Axial test space	2000N	3000N	5000N	10000N	20000N
Transverse test space	2000N	3000N	5000N	10000N	20000N
Frequency range	0~5Hz/10Hz				
Test frequency	According to the actual sample				
Max amplitude	±50mm				
Count stop accuracy	±1				
Test working position: single working position	According to the spring size and force value(Standard configuration:1)				
Power supply	AC220V±10% 50Hz				

KASON-HPIT SERIES
Pendulum Impact Testing Machine

APPLICATION

Mainly used for the determination of the impact toughness of non-metallic materials such as hard plastics (including plates, pipes, and plastic profiles), reinforced nylon, glass fiber reinforced plastic, ceramics, cast stone, and electrical insulating materials. This testing machine is an ideal testing equipment for the chemical industry, scientific research departments of colleges and universities, etc.

STANDARD

ISO179—2000, GB/T1043—2008, JB/T8762—1998, GB/T18743-2002, ISO180—2000, GB/T1843—2008, JB/T8761—1998, ASTM D256-2010, GB-T13525-1992.

TECHNICAL SPECIFICATIONS

MODEL		KASON-HPIT-5JT	KASON-HPIT-15JT	KASON-HPIT-50JT	KASON-HPIT-5.5XT	KASON-HPIT-22XT	KASON-HPIT-5.55XT	KASON-HPIT-50JXT
Impact energy(J)	Charpy	1,2,4,5J	7.5,15J	1,2,4,5,7.5,25,25,50	-	-	1,2,4,5	7.5,15,25,50
	Izod	-	-	-	2.75J、5.5J	11,22J	2.75,5.5	2.75,5.5,11,22
Impact velocity(m/s)	Charpy	2.9	2.9	2.9	-	-	2.9	2.9
	Izod	-	-	-	3.5	3.5	3.5	3.5
Pendulum advance angle		1500						
Strike center distance(mm)	Charpy	221	221	221	-	-	-	-
	Izod	-	-	-	335	335	335	335
Blade filleted radius	Charpy	R=2±0.5	R=2±0.5	R=2±0.5	-	-	R=2±0.5	R=2±0.5
	Izod	-	-	-	R=0.8±0.2	R=0.8±0.2	R=0.8±0.2	R=0.8±0.2
Print out		Capacity. Angle, energy, etc.						
Print		with the printer						
power supply		AC220V±10% 50HZ						

KASON-XNR SERIES

Melt Flow Indexer

APPLICATION

This machine is not only suitable for engineering plastics such as polyethylene, polyarylsulfone, fluoroplastics, nylon, etc., with higher melting temperature, but also suitable for plastics with lower melting temperature such as polyethylene, polystyrene, polypropylene, ABS resin, and polyoxymethylene resin. test.

stitutes, quality inspection institutions, plastic manufacturers, plastic products and petrochemical industries.

STANDARD

- GB/T3682-2000 "Determination of Thermoplastic Melt Flow Rate and Melt Volume Flow Rate"
- ISO 1133: 1997 "Determination of Thermoplastic Melt Mass Flow Rate MFR and Melt Volume Flow Rate MVR"
- ASTM D1238 "Standard Test Method for Measuring Thermoplastic Melt Flow Rate by Extrusion Plastometer"

TECHNICAL SPECIFICATIONS

MODEL		KASON-XNR-400A	KASON-XNR-400B	KASON-XNR-400CT	KASON-XNR-400DT	KASON-XNR-400ET
Test method		Quality method	Quality method, Volume method	Quality method	Quality method, Volume method	Quality method, Volume method
Temperature range		0℃-450℃				
Display method		LCD screen	LCD screen	Touch screen	Touch screen	Touch screen
Cutting method		Manual loading	manual and automatic	manual and automatic	manual and automatic	manual and automatic
Temperature display resolution		0.1℃				
Measuring range	MFR	0.1-100g/10min	0.1-100g/10min	0.1-100g/10min	0.1-100g/10min	0.1-150g/10min
	MVR	-	1-150cm³/10min	-	1-350cm³/10min	150-5000cm³/10min
Timing accuracy		0.1S	0.1S	0.1S	0.1S	0.001S
Displacement accuracy		-	0.01mm	0.01mm	0.01mm	0.01mm

KASON-5020P SERIES

Pneumatic Dumbbell Sample Making Machine

APPLICATION

It uses pneumatic as motive power and it can operate once connect to the air pressure source. The machine can be applied in cutting rubber, adhesive tape, leather etc. The experience will use dumbbell specimen and other special material, such as laminate board and series of composite material. Easy and safety to operate.

TECHNICAL SPECIFICATIONS

MODEL	KASON-5020P
Type	pneumatic
Punching stroke	25-100mm
Working Air Pressure	0.6MPa
Effective used area(W×D×H)	320*220 mm
weight	40 kg

Electric Pastic Dumbbell Sample Making Machine

APPLICATION

This machine is suitable for making dumbbell-shaped tensile specimens and Vicat therma deformation specimens of various non-metallic pipes or plates. This machine adopts the principle of profiling processing, combined with the principle of mechanical transmission to transform the rotary motion of thread into linear motion. It has the characteristics of simple operation, fast, convenient, standard sample preparation and stable size.

TECHNICAL SPECIFICATIONS

MODEL	KASON-YZ-12E	KASON-YZ-20E	KASON-YZ-70E
Sample thickness(mm)	12	20	70
Milling cutter dia.(mm)	27	27	27
Rotating speed(r/min)	2810	2810	2810
Power supply	AC220V,50Hz		
Weight	20kg	20kg	20kg

KASON-5010 SERIES

Manual Type Rubber Die Cutter Tensile Sample Making Machine

APPLICATION

It is used to cut sample rubber, plastic, leather and other material of various shapes by using different knife dies.

TECHNICAL SPECIFICATIONS

MODEL	KASON-5010
Punching stroke	25mm
Working table size	300×200 mm
Machine size	610×730×780 mm
Net weight	75kg
Type	Manual

KASON-5040 SERIES

Electric Impact Specimen Notch Sample-Making Test Machine

APPLICATION

Electric Impact Specimen Notch Sample-making Machine is the sampling machine producing notch sample used by charpy and izod impact tester to do the test of impact toughness of non- metallic materials. It can clamp 20 samples per time; make more than 60 notches per 10 minutes.

TECHNICAL SPECIFICATIONS

MODEL	KASON-5040
Table stroke	>160mm
Blade feeding speed	1-30mm/min Adjustible
Sample type	Type 1, Type 2, Type 3
Notch type	Type A, B (optional), C (optional)
External dimension	600mm×270mm×300mm
Supply voltage	220V, single-phase three wire system

Plastics Izod Charpy Impact Manual Sample Notch Machine

APPLICATION

KASON-5030 Plastic Impact Sample Notching Machine is a manual operate machine. It is designed to meet the requirements of sample preparation for Charpy impact test and Izod

TECHNICAL SPECIFICATIONS

MODEL	KASON-5030
Tool Shape and Size	A Type: 45°±1°, R0.25±0.05mm B Type: 45°±1°,R1.0±0.05mm C Type: 45°±1°, R0.1±0.05mm
Max. Stroke	20mm

DYNAMIC FATIGUE TESTING MACHINE

KASONTEST

- KASON 370.005/370.01/370.02 (5KN~25KN)

- KASON 370.02/370.05/370.10/370.25 (25KN~250KN)

- KASON 311.10/311.25 (100KN~250KN)

- KASON PLG-20C/50C/100C/200C/300C/500C (20KN~500KN)

- KASON 311.50/311.100/311.250 (500KN~2500KN)

SERVO DYNAMIC STATIC FATIGUE TESTING SYSTEM

1 Optional tie bar
2 High stiffness columns
3 Movable cross-beam & locking mechanism
4 Alignment Fixture
5 Dynamic load cell
6 Hydraulic fixture
7 Hydraulic Lift
8 Large, Durable Work Surface
9 Intuitive, Centralized Controls
10 Built-in actuator, servo valve, displacement sensor, etc
11 Wide, Stable Footprint

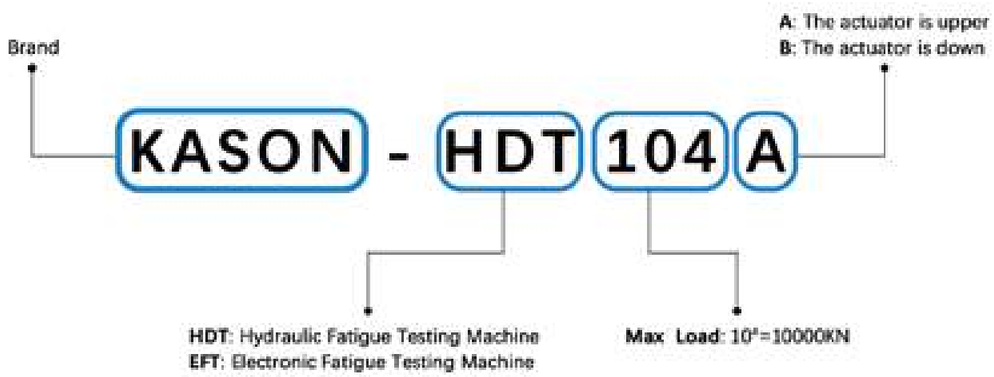
APPLICATION

The electro-hydraulic servo fatigue testing machine is used to test the dynamic characteristics of metal, non-metal and composite materials, and structural parts. It can perform high-cycle fatigue, low-cycle fatigue, and fracture mechanics tests. High- and low-cycle fatigue tests can output waveforms such as sine waves, triangle waves, and trapezoidal waves. Different fixtures can be configured to achieve loading methods such as tension, compression, and tension-compression. Environmental test equipment can also be additionally configured to perform simulated environmental tests under high temperature, low temperature, salt spray, and corrosion.

FEATURES

- Machine adopts a closed frame structure, with high frame rigidity, no backlash and good stability;
  Adopts leak-free and silent servo hydraulic technology, with stable pressure output without fluctuation,low noise and good heat dissipation effect;
- Static testing can achieve closed-loop control of force, deformation and displacement, and smooth and disturbance-free switching between control modes;
- Dynamic testing can achieve high-cycle fatigue and low-cycle fatigue, and can also achieve waveform output such as sine wave, triangle wave and square wave;
- Equipped with different fixtures,can perform mechanical tests such as stretching, compression, pulling, pressing and pulling.
- Automatic protection for oil pressure over-limit and oil temperature over-temperature.

PRODUCT MODEL INTRODUCTION



KASON-EP SERIES

Table Electronic Fatigue Testing System

APPLICATION

It is mainly used to detect the static and dynamic mechanical properties of tiny material samples, parts and components, and elastomers. It can realize fatigue tests such as tension, compression, and bending, as well as high-cycle fatigue, low-cycle fatigue, crack extension, fracture toughness and other tests, and realize various waveform outputs such as sine wave, triangle wave, and square wave. Equipped with high-temperature furnace, high and low temperature box and corrosion box, it can realize mechanical testing in different environments.

FEATURES

- The main machine is a closed T-type frame structure with high frame rigidity, no backlash, and good stability. The T-type table has high strength and strong expansibility.
- It can be installed with test fixtures to realize static and dynamic fatigue mechanical tests of various standard samples; it can also directly install various parts and structural parts to realize dynamic and static mechanical tests.
- The electronic actuator is placed on the top, with compact structure, small size, no need for lubricating oil and hydraulic oil, clean environment, no noise, and maintenance-free.
- The up and down movement of the beam is electrically adjusted to meet the mechanical testing of different types of samples.

TECHNICAL SPECIFICATIONS

MODEL		KASON-EP2	KASON-EP5	KASON-EP10	KASON-EP20
Force capacity	Dynamic(kN)	±2	±5	±10	±20
	Static(kN)	2	5	10	20
Load range		2%~100%FS			
Testing machine accuracy		±0.5%			
Actuator dynamic stroke(mm)		100			
Displacement measuring range (mm)		0 ~ 100(±50)			
Displacement measurement resolution(mm)		0.001			
Deformation indication relative error		±0.5%			
Sine wave test Frequency (Hz)		Standard: 0.01 ~ 10; Optional: 0.01 ~ 50HZ;			
Maximum test space(mm)		400			
Effective distance between columns(mm)		350			
Machine frame sizes(mm)		780X712X1655			
Machine frame weight(KG)		252			
Total power(KW)		0.75			
Power supply		AC 380V± 10%, 50Hz			

KASON-HDT-B SERIES

Electro Hydraulic Servo Dynamic Static Fatigue Testing Machine

APPLICATION

It is mainly used to detect the static and dynamic mechanical properties of metal and non-metal materials. It can realize mechanical tests such as tension, compression, tension-tension, compression-compression and tension-compression, as well as high-cycle fatigue, low-cycle fatigue, crack growth, fracture toughness and other tests, and realize various waveform outputs such as sine wave, triangle wave, square wave, etc.

FEATURES

- The crossbeam is placed on top and the actuator is placed on the bottom to form a closed frame structure. The frame has high rigidity, no reverse clearance and good stability.
- The actuator adopts a double-acting cylinder design, with reasonable space design and easy operation.
- The lifting, locking and sample clamping of the mobile crossbeam are all operated by buttons, which is flexible and convenient.

TECHNICAL SPECIFICATIONS

MODEL	KASON-HDT254B	KASON-HDT504B	KASON-HDT1056B	KASON-HDT2558	KASON-HDT2558
Maximum dynamic force (kN)	±25	±50	±100	±250	±500
Maximum static force (kN)	25	50	100	250	250
Load range	2%-100%FS				
Testing machine accuracy	Static indication accuracy: ±0.5% Dynamic loading accuracy: ±1%				
Actuator dynamic stroke(mm)	150				
Displacement measuring range (mm)	0 - 150(±75)				
Displacement measurement resolution(mm)	0.001				
Deformation indication relative error	±0.5%				
Sine wave test Frequency (Hz)	Standard: 0.01 - 30; Optional: 0.01 - 50HZ; 0.01 - 100HZ(Static pressure support cylinder)				
Vertical test space(mm)	800	800	800	1000	1000
Working table height (mm)	825	825	825	825	825
Effective distance between columns(mm)	545	545	545	635	635
Column diameter(mm)	80	80	80	76.2	76.2
Main frame stiffness	3×10^8	3×10^8	3×10^8	3×10^8	3×10^8
Machine frame sizes(mm)	1010X720X2900	1010X720X2900	1010X720X2900	1148X795X3252	1148X795X3252
Machine frame weight(KG)	1200	1200	1200	1200	1200
Coaxiality of hydraulic fixture	5%	5%	5%	5%	5%
Power supply	AC 380V± 10%, 50Hz				

KASON-HDT-A SERIES

Hydraulic Servo Fatigue Testing Machine(Actuator is upper)

APPLICATION

It is mainly used to detect the static and dynamic mechanical properties of metal and non-metal materials. It can realize mechanical tests such as tension, compression, tension-tension, compression-compression and tension-compression, as well as high-cycle fatigue, low-cycle fatigue, crack growth, fracture toughness and other tests, and realize various waveform outputs such as sine wave, triangle wave, square wave, etc.

FEATURES

- The actuator is placed on top and the T-type stage is placed on the bottom to form a closed frame structure. The frame has high rigidity, no backlash and good stability.
- The actuator adopts a double-acting cylinder design. The T-type stage can be installed with hydraulic fixtures, as well as various parts and structural parts.
- The lifting, locking and sample clamping of the movable beam are all operated by buttons, which is flexible and convenient.

TECHNICAL SPECIFICATIONS

MODEL	KASON-HDT504A	KASON-HDT105A	KASON-HDT255A	KASON-HDT505A
Maximum dynamic force (kN)	±50	±100	±250	±500
Maximum static force (kN)	50	100	250	500
Load range	2%-100%FS			
Testing machine accuracy	Static indication accuracy: ±0.5% Dynamic loading accuracy: ±1%			
Actuator dynamic stroke(mm)	150			
Displacement measuring range (mm)	0 ~ 150(±75)			
Displacement measurement resolution(mm)	0.001			
Deformation indication relative error	±0.5%			
Sine wave test Frequency (Hz)	Standard: 0.01 ~ 30; Optional: 0.01 ~ 50HZ; 0.01 ~ 100HZ(Static pressure support cylinder)			
Vertical test space(mm)	1000		750	
Effective distance between columns(mm)	533		760	
Main frame stiffness	3×10^8			
Machine frame sizes(mm)	990X1000X2555		64X1000X3574	
Machine frame weight(KG)	1200		1200	
Coaxiality of hydraulic fixture	5%			
Power supply	AC 380V± 10%, 50Hz			

KASON-HDT-A SERIES

Servohydraulic Dynamic Static Fatigue Testing Machine (4 column)

APPLICATION

It is mainly used to test the dynamic and static mechanical properties of various materials, parts, elastomers, shock absorbers and components. It can perform tensile, compression, bending, low and high cycle fatigue, crack propagation, and fracture mechanics tests under sine wave, triangle wave, square wave, trapezoidal wave, and combined waveforms. It can also be equipped with environmental testing devices to complete environmental simulation tests at different temperatures.

FEATURES

- The actuator is mounted and the T-type platform is mounted to form a closed frame structure.
- The frame has large stiffness, no reverse clearance and good stability.
- The actuator is designed by two-way acting cylinder.
- Hydraulic fixtures can be installed on the T-shaped platform, as well as various parts and structural parts.

TECHNICAL SPECIFICATIONS

MODEL	KASON-HDT504A	KASON-HDT105A	KASON-HDT255A	KASON-HDT505A	KASON-HDT106A	KASON-HDT20A
Maximum dynamic force (kN)	±50	±100	±250	±500	±1000	±2000
Maximum static force (kN)	50	100	250	500	1000	2000
Load range	2%~100%FS					
Testing machine accuracy	Static indication accuracy: ±0.5% Dynamic loading accuracy: ±1%					
Actuator dynamic stroke(mm)	150					
Displacement measuring range (mm)	0 ~ 150(±75)					
Displacement measurement resolution(mm)	0.001					
Deformation indication relative error	±0.5%					
Sine wave test Frequency (Hz)	Standard: 0.01 ~ 30; Optional: 0.01 ~ 50; 0.01 ~ 100(Static pressure support cylinder)					
Test space (mm)	1500					
Test width (mm)	720					
Main frame stiffness	3×108					
Coaxiality of hydraulic fixture	5%					
Power supply	AC 380V± 10%, 50Hz					

KASON-HDT-A SERIES

Tabletop servohydraulic dynamic testing machine

APPLICATION

Servohydraulic fatigue testing machine is mainly used for fatigue mechanical properties test of metal materials, composite materials and parts, biological bones, elastomers. It can realize tension, compression, bending, tension-compression loading. High cycle fatigue, low cycle fatigue, fracture mechanics and other tests are realized. There are load control, strain control, displacement control, sine-wave, triangular wave, trapezoidal wave and other waveform output.

FEATURES

- It can be equipped with wedge clamps, compression clamps, bending clamps, fracture mechanics clamps, biological bone clamps, etc.
- It can be equipped with corrosion tanks to allow the specimens to undergo fatigue tests in water, Nacl solution, acid, and alkali solution environments;
- The base air spring is used for vibration reduction to prevent fatigue vibration from being transmitted to the surrounding area;
- It is equipped with a servo oil source, which has low noise, low energy consumption, and adjustable output flow

TECHNICAL SPECIFICATIONS

MODEL	KASON-HDT503A	KASON-HDT104A	KASON-HDT254A
Maximum dynamic force (kN)	±5KN	±10KN	±25KN
Maximum static force (kN)	5KN	10KN	25KN
Load range	2%-100%FS		
Testing machine accuracy	Static indication accuracy: ±0.5% Dynamic loading accuracy: ±1%		
Actuator dynamic stroke	120mm		
Displacement measuring range	0 ~ 120mm(±60mm)		
Displacement measurement resolution	0.001mm		
Deformation indication relative error	±0.5%		
Force coaxiality	≤5%		
Frequency Range	Standard: 0.01 ~ 30;Optional: 0.01 ~ 50; 0.01 ~ 100(Static pressure support cylinder)		
Test space (mm)	827		
Test width (mm)	460		
Power supply	AC 380V± 10%, 50Hz		

KASON-HDT-BC SERIES

Hydraulic Servo Dynamic Fatigue Testing Machine with chamber

APPLICATION

It is mainly used to detect the static and dynamic mechanical properties of metal and non-metal materials. It can realize mechanical tests such as tension, compression, tension-tension, compression-compression and tension-compression, as well as high-cycle fatigue, low-cycle fatigue, crack growth, fracture toughness and other tests, and realize various waveform outputs such as sine wave, triangle wave, square wave, etc.

TECHNICAL SPECIFICATIONS

MODEL	KASON-HDT254BC	KASON-HDT504BC	KASON-HDT105BC	KASON-HDT255BC	KASON-HDT505BC
Maximum dynamic force (kN)	±25	±50	±100	±250	±500
Maximum static force (kN)	25	±50	±100	±250	500
Load range	2%-100%FS				
Testing machine accuracy	Static indication accuracy: ±0.5%, Dynamic loading accuracy: ±1%				
Actuator dynamic stroke(mm)	150				
Displacement measuring range (mm)	0 ~ 150(±75)				
Displacement measurement resolution(mm)	0.001				
Deformation indication relative error	±0.5%				
Sine wave test Frequency (Hz)	Standard: 0.01 ~ 30; Optional: 0.01 ~ 50; 0.01 ~ 100(Static pressure support cylinder)				
Test space (mm)	800			1000	
Test width (mm)	825				
Effective distance between columns(mm)	545			635	
Column diameter(mm)	80			76.2	
Main frame stiffness	3×10^8				
Machine frame sizes(mm)	1010X720X2900			1148X795X3252	
Machine frame weight(KG)	1200			1200	
Coaxiality of hydraulic fixture	5%				
Power supply	AC 380V± 10%, 50Hz				
Temperature range	-60℃ ~ +300℃; -70℃ ~ +300℃; -100℃ ~ +300℃				

KASON-HFT SERIES

Electromagnetic Resonance High Frequency Fatigue Testing Machine

APPLICATION

HFT Series Electromagnetic Resonance Fatigue Testing Machine is used for fatigue tests on metallic materials and components under tension, compression or reversal load. Equipped with relevant grips, three-point bending test, four-point bending test, tension and compression of sheet sample test, tension and compression of circle test, gear wheel, bolt, connecting rod, roller chain, crackle expanding tests can be done on this machine. The series of testing machines undergo optimization design, the structure is rational. The automatic controlled system adopts the advanced pulse wide control system and new-type power amplifier to improve the reliability of the electric system .

It has high efficiency, easy to shake, no-stop shake, low energy consummation, high controlling accuracy, small fluctuation. The machine is complied with DIN50100.

TECHNICAL SPECIFICATIONS

MODEL	KASON-HFT204	KASON-HFT504	KASON-HFT105	KASON-HFT205	KASON-HFT305	KASON-HFT505
Load capacity (kN)	20	50	100	200	300	500
Load capacity for dynamic (peak value)(kN)	±10	±25	±50	±100	±150	±250
Load measuring range	1%-100%FS					
Testing machine accuracy	Static indication accuracy: ±0.5%; Dynamic loading accuracy: ±1%					
Frequency	50-250hz					
Relative error of static load	≤±1%					
Load fluctuation	1%F-S					
Max. distance between grips(mm)	500	500	500	700	700	600
Weight(kg)	500	500	500	600	600	600
Power Supply	AC220V±10%, 50HZ					

KASON 647 SERIES FULL TEMPERATURE JIG

Versatility and reliability unmatched by any hydraulic grip on the market. The symmetrical housing design ensures even specimen loading across the entire wedge surface. Once the grip is installed, lateral movement of the wedge cannot change the gripping position on the specimen.

HYDRAULIC WEDGE GRIP

FLAT SPECIMEN

ROUND SPECIMEN

PHYSICAL DRAWING

FEATURES

- These grips hold the specimen in the same position for each test, minimizing bending strains that could invalidate test results.
- Tensile and fatigue testing capabilities.
- Adjustable pressure allows these grips to be used to test a wide variety of materials.
- A variety of wedges are available to suit your requirements.
- High side load capacity allows for easy specimen insertion.

SPECIFICATIONS

MODEL	KASON 647.02	KASON 647.10	KASON 647.25	KASON 647.50	KASON 647.100
Pressure	0.7~21MPa	0.7~21MPa	0.7~21MPa	10~70MPa	10~70MPa
Specification	25KN	100KN	250KN	500KN	1000KN

FEATURES

These grips are designed for high temperature, low cycle fatigue testing, but can also be used for other types of tension-compression testing or tension-only testing. They are made from selected high temperature superalloys and have a working range extending up to the temperature zone of the high temperature furnace. A hydraulically controlled piston locks the specimen into the grip. Essential accessories for these grips include a hand pump, and optional accessories include round or threaded specimen connections and water cooling kits.

SPECIFICATIONS

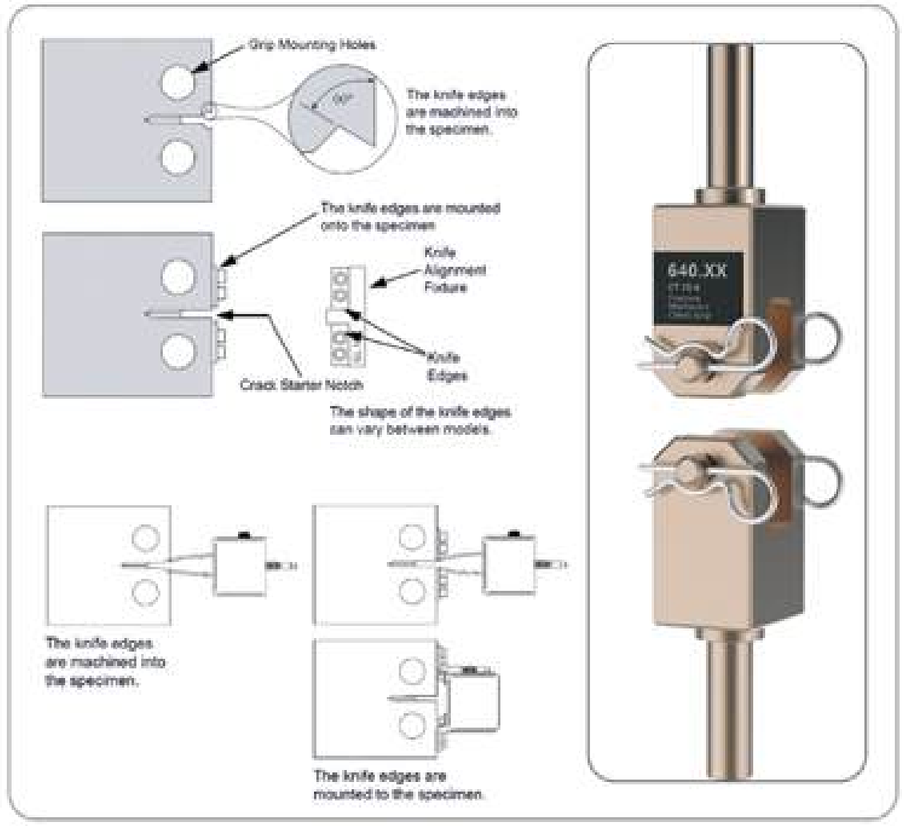
MODEL	KASON 680.01
Temperature	1000℃（1800℉）

KASON 5640 FRACTURE MECHANICS TOUGHNESS GRIPS

Can be readily configured to perform linear elastic and elastic-plastic fracture toughness testing. The system load frame can be used for both pre-cracking and fracture testing and equipped with a selection of standard-compliant grips and precision clip-on displacement gauges. Easy-to-use application software features templates for testing to various ASTM, ISO and British test standards for fracture toughness and fatigue crack propagation.

STANDARDS

- ISO 12737, 12108, 12135
- ASTM E399, E647, B645, E1820

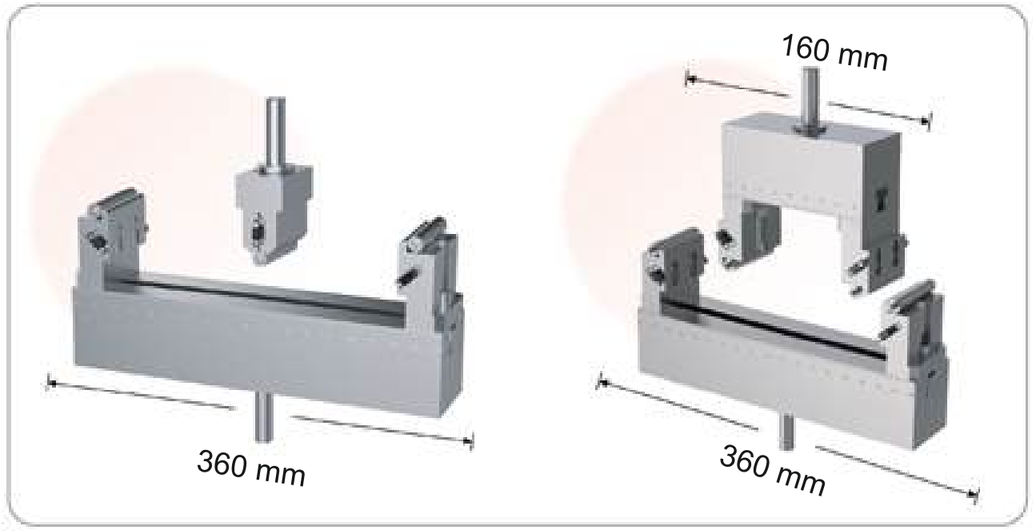


TECHNICAL SPECIFICATIONS

MODEL	KASON 5640.12	KASON 5640.25
Specimen thickness(mm)	12.7	25.4
Static Load(kN)	60	60

KASON 5642 THREE / FOUR BEND FIXTURES

Suitable for almost any testing requirement, these highly durable fixtures are ideal for testing plastics, composites and many other materials. Rigid support rollers reduce unnecessary loads and friction on the sample, ensuring accurate test results. All models are available for 3-point and 4-point testing.



TECHNICAL SPECIFICATIONS

MODEL	KASON 5642.10	KASON 5642.25
Span (mm)	38-305	80-610
Stick diameter (mm)	Φ5、φ10、φ15、φ20、φ25	Φ20、φ30、φ40、φ50

KASON 5643 PLATEN

The platen is made of case-hardened alloy with hard chrome plating, has a spherical seat at the upper clamp to improve calibration, and has concentric rings etched on the smooth surface. The installation varies from 60mm to 300mm, and the center of the support surface can withstand 689MPa (100,000psi) static and 275MPa (40,000psi) dynamic installation pressure. The temperature range is -129℃ to 177℃ (-200℉ to 350℉).

TECHNICAL SPECIFICATIONS

MODEL	KASON 5643.06	KASON 5643.10	KASON 5643.15	KASON 5643.20	KASON 5643.30
Maximum sample diameter (mm)	60	100	150	200	300

KASON 647 ALL-TEMPERATURE GRIPS

The Series 647 Full Temperature Grips operate in environmental chambers up to 1000°F (540°C). Two models are available: one with a range of –130 to 315°C (–200°F to +600°F) and one with a range of –130 to 540°C (–200°F to +1000°F).

The Series 647 Full Temperature Grips offer all the benefits of the Series 647 Hydraulic Wedge Grips, designed to operate in environmental chambers up to 1000°F (540°C). Two models are available: one with a range of –130 to 315°C (–200°F to +600°F) and one with a range of –130 to 540°C (–200°F to +1000°F). These grips can be opened and closed remotely, so there is no need to cool them down before changing specimens. Rapid specimen changes can be accomplished without touching the hot gripping fixture. In addition, because the gripping heads operate within the test chamber (at test temperature), thermal gradients between the grips and specimen are minimized.

TECHNICAL SPECIFICATIONS

MODEL	KASON 647.10A	KASON 647.25A
Specification (KN)	100	250

KASON 5653 HIGH TEMPERATURE FURNACES

High temperature furnaces are available in a variety of temperatures for a wide range of materials including metals, composites and ceramics. They are ideal for tension, compression, flexure and cyclic fatigue testing. The center split design of the furnaces allows easy access to samples and fixtures. The mounting brackets have slide rails that can be easily pulled apart to separate the two half circles. The mounting brackets can be used with a variety of load frames. Each furnace comes complete with R-type thermocouples and mounting brackets. If the multiple zone option is selected, the furnace also includes thermocouples and temperature control for each zone. Each furnace can accommodate high temperature axial extensometers.

FEATURES

Reduce heat loss and extend service life using silicon carbide heating elements and alumina fiber insulation; single or multi-zone heating; center split design allows easy access to samples and fixtures; multiple furnace heights to accommodate any testing requirement.

SPECIFICATIONS

MODEL	TEMPERATURE MAXIMUM/MINIMUM	TOTAL IMPROVEMENT	HOT ZONE HEIGHT	HOT ZONE WIDTH AND DEPTH	NUMBER OF REGIONS
KS 5653.01	1400℃/100℃	55mm	19mm	50×50mm	1
KS 5653.02	1400℃/100℃	85mm	50mm	50×50mm	2
KS 5653.03	1400℃/100℃	126mm	90mm	62.5×62.5mm	2
KS 5653.04	1400℃/100℃	220mm	185mm	62.5×62.5mm	3

- This high temperature furnace is particularly suitable for use when a low thermal gradient is required on tensile or fatigue specimens.
- Suitable for high temperature bend testing of ceramic materials in accordance with ASTMC1211 or JISR1604 standards.
- Please contact us for the selection of bend fixtures and tie rods suitable for temperatures above 1100°C (2000°F).
- Note: Please specify voltage requirements and provide necessary load frame dimensions when ordering to determine system integration requirements.

KASON 5651 ENVIRONMENTAL CHAMBERS

These environmental chambers help you complete material and component testing faster and with more accurate results. These chambers use open-circuit coil heating, so they can heat test specimens and fixtures to the required temperature very quickly.

FEATURES

High-flow fans reduce thermal gradients in the air and test specimens for more accurate results; hinged flip-up door opens to 180° for easy access to the chamber interior; small ports allow extensometer cables to pass through without being crushed in the door; liquid nitrogen solenoid valve included; interior lights.

Environmental Chamber CartsThis heavy-duty, adjustable cart is a great choice if you want to be able to move around. Its rugged construction, locking rollers, floor level adjuster, and screw-driven lift allow you to safely and securely use the chamber for a wide range of different test systems.This cart supports environmental chambers with a variety of load frames. Height is adjustable.

TECHNICAL SPECIFICATIONS

MODEL	NET TEST SPACE HEIGHT	EXTERNAL DIMENSIONS
KASON 5651.20-01	931mm~1293mm	1430mm×1118mm
KASON 5651.20-02	931mm~1293mm	1570mm×1118mm

CONTROLLER OF GRIPS

Two chuck controllers and one clamp intensifier are available.

Standard features include

Standard features include:

- Single valve pressurization/release for ease of use.
- Central valve detent for perfect control of clamping.
- Continuous positive pressure design maintains high pressure stability throughout the operating range.
- Controls clamp closing speed with a separate flow control valve.
- Fewer parts for greater reliability.
- Easy maintenance and repair.
- Supports a variety of electrical connections.
- Rate control of clamping speed.

Model 685.22 Hydraulic Grip Controller

The KASON 685.22 units are also available with a separate hydraulic pump, 1.1 kW motor, 18 liter oil tank, 10 micron absolute return filter and hoses for connecting the grips. These units are equipped with separate check valves for the upper and lower grips. The grips use a special hydraulic oil supply pressure that allows the grips to be used in an environmental chamber, and these supplies are continuous operation, allowing for good pressure stability and easy adjustment of output pressure. The grip closure rate is also adjustable. Since the grip controller is a separate system, the hydraulic grips can also be used with non-hydraulic test systems.

Model 685.60 Hydraulic Grip Intensifier

If your grips require pressures above the normal system hydraulic pressure, then you need the Model 685.60 Hydraulic Grip Intensifier. Two models are available with factory adjusted output pressures of 45 MPa (6,500 psi) and 69 MPa
(10,000 psi). The output pressure is adjustable from a minimum of 10 MPa (1,500 psi) up to the output pressure rating of the grip controller.

TECHNICAL SPECIFICATIONS

MODEL	KASON 685.22	KASON 685.60
Pressure Range	0.7~21MPa	10~70MPa

HYDRAULIC ACTUATORS

Designed to meet testing needs, using mature and advanced engineering testing technology, optimizing special materials and processes, minimizing friction, helping to maximize reliability, wear resistance and efficiency, and providing users with the required high-precision and test repeatability hydraulic linear actuators, rotary actuators, and hydrostatic support actuators, which are fully matched to different working conditions and application scenarios to solve the testing of materials, structures and components!

Hydraulic actuators	Application	Piston design	Load	Advantages and Features
KASON 8244 	**1.** Dynamic component fatigue test **2.** Structural fatigue test **3.** Vehicle durability test	Double rod	15KN-1000KN (3.3KIP-220KIP)	**1.** Excellent reliability and versatility to achieve dynamic force generation **2.** Dedicated seal design for excellent performance and long service life **3.** Hydraulic cushions to protect end caps
KASON 8201 	**1.** Aerospace structural testing **2.** High-power seismic testing systems that require long travel at lower speeds	Single rod	**Tension** 32KN-1775KN (7KIP-400KIP) **Pressure** 63KN-2595KN (14KIP-590KIP)	**1.** Economical solution for excellent closed-loop servo control performance **2.** Fatigue-rated tie rods, bolted connections, and plated designs improve reliability and wear resistance **3.** Low-friction seals account for only 1% of rated load, enabling energy-saving operation **4.** Hydraulic cushions protect end caps
KASON 8242 	**1.** Component fatigue test **2.** Structural resonance search **3.** Modal analysis	Double rod	2.7KN-14.7KN (0.6KIP-3.3KIP)	**1.** Non-metallic bearings have high side load capacity and eliminate bearing-to-connecting rod wear failures **2.** Low-pressure piston rod seals ensure low-friction operation and minimize fluid leakage
KASON 8248 	**1.** Vehicle vibration analysis on tire coupling test system **2.** High-frequency elastomer testing	Double rod	10KN-250KN (2.2KIP-55KIP)	**1.** Hydrostatic centering bearings support continuous high-speed operation under heavy side loads **2.** Large-diameter single-piece chrome-plated piston rod provides excellent strength and lateral stiffness **3.** Hydraulic cushions protect end caps during full-stroke, high-frequency operation
KASON 8215 	**1.** Vehicle vibration analysis on tire coupling test system **2.** High-frequency elastomer testing	Double rod	10KN-250KN (2.2KIP-55KIP)	**1.** Hydrostatic centering bearings support continuous high-speed operation under heavy side loads **2.** Large-diameter single-piece chrome-plated piston rod provides excellent strength and lateral stiffness **3.** Hydraulic cushions protect end caps during full-stroke, high-frequency operation 4. Equal working areas for clockwise and counterclockwise rotation provide balanced control

Hydraulic actuators	Application	Piston design	Load	Advantages and Features
KASON 8215 	**1.** Test materials, axles, couplings, drive shafts and other parts involving rotary motion **2.** Provide greater torque than the 215 series rotary actuator while maintaining incredible control fidelity	Double rod	22597NM-82479 NM (200000 LBF-IN -7300,00 LBF-IN	**1.** Reliable, heavy-duty, high-torque generation in a closed-loop electro-hydraulic servo test environment **2.** Heavy-duty bearings and dual-blade rotor design withstand large radial and axial loads **3.** Precision chamber and rotor design ensure zero actuator clearance during torque reversal **4.** Equal working area for clockwise and counterclockwise rotation provides balanced control

KASON 8215 TORSION ACTUATOR

The KASON 8215 rotary actuator is a device that provides heavy torque for precision torsion servo control systems. These actuators, together with matching accessories, form a universal test bench for torsion test application systems.
Typical applications: 1. Fatigue and durability testing of power transmission components (such as shafts, couplings and drive shafts). 2. Ultimate strength testing and other material testing on shafts.

FEATURES

Fatigue-resistant design meets the requirements of long-term reliable use; heavy-duty roller bearings can withstand high radial loads with minimal friction; 90° dynamic and static rotation; hydraulic buffers can protect blades during full-stroke high-speed operation. Angular displacement sensor (ADT) provides signals for precise angular position feedback in closed-loop servo control applications; flange connector connects the shaft of the rotary actuator to the test sample; HST 8215 includes an actuator mounting bracket with springs to reduce thrust loads caused by sample deformation when torsion loads are applied.

MODEL	RATED LOAD (KN)	ANGULAR DISPLACEMENT()	DISPLACEMENT (CM^3/R)
KASON 8215.35	565	0-90°	31.1
KASON 8215.41	1130	0-90°	60.6
KASON 8215.42	2260	0-90°	117.9
KASON 8215.45	5650	0-90°	311.3
KASON 8215.51	11.300	0-90°	622.7

ROTARY ACTUATORS

KASON 8249 Series rotary actuators are important load transmission components. Benefits of these rotary actuators include: reducing backlash, absorbing side loads, and providing a fulcrum to complete planned movement.

Typical Applications: Used to connect actuators or other actuating devices to reaction devices or brackets for structural or component testing. Typically screwed to the actuator end cap, but can be used anywhere a backlash-free rotary actuator connection is required. Mounting holes are designed to fit a variety of actuators and fixtures.

Features: Rugged, versatile rotary actuator designed for the rigorous demands of closed-loop servohydraulic test applications; load ratings from 25 kN to 1000 kN; unique positive bearing preload adjustment eliminates backlash forces that cause load peaks and upset load rates; design uses fatigue-resistant ductile iron for minimum weight and maximum strength; maintenance-free, non-metallic rotary actuator bearings reduce rotational friction, eliminating the need for lubrication and extending rotary actuator life.

TECHNICAL SPECIFICATIONS

MODEL	RATED LOAD (KN)	INCLINATION ANGLE	ROTATION ANGLE
KASON 8249.12	25	±7°	±90°
KASON 8249.20 / 8249.23	70	±17°	75°/90° - 80°/90°
KASON 8249.32	160	±14°	75°/90°
KASON 8249.41	340	±6°	30°/90°
KASON 8249.42	500	±7°	30°/90°
KASON 8249.51	730	±8°	-30°/90°

PERFORMANCE CHARACTERISTICS

The KASON 8293 series substations are designed to effectively isolate the hydraulic power system from the test system, provide smooth and controllable hydraulic pressure conversion, and enhance the safety of the test system by improving the predictability of the hydraulic system control. The hydraulic pressure generated by a single hydraulic power unit (HPU) during operation is fully and independently controlled. The carefully designed HSM makes the test system easier to set up, operate and maintain, allowing operators to adjust the hydraulic flow and prevent the risk of crosstalk.

TECHNICAL SPECIFICATIONS

MODEL	KASON 8293.11	KASON 8293.22	KASON 8293.32
Working pressure (MPa)	21	21	21
Nominal flow rate (L/min)	189	378	946
High and low pressure adjustment range (MPa)	0-21	0-21	0-21
Number of stations	1-4	1-4	1-4

KASON 8244 LINEAR ACTUATORS

1.Linear servo actuators play an important role in obtaining accurate and repeatable test results. R&D engineers use proprietary materials and processes to minimize friction while maximizing reliability, wear resistance and ease of maintenance.

2.KASON 8244 Series hydraulic actuators are the most popular linear high-performance products among our actuators for servo-hydraulic control applications. This actuator's fatigue resistance allows for years of trouble-free use.

Typical applications: highly dynamic component fatigue testing; structural fatigue testing; vehicle durability testing.

APPLICATION

Fatigue-resistant design provides years of reliable service in demanding applications; Double-ended, one-piece piston rod design provides balanced dynamic performance and increased side load capacity; Proprietary polytetrafluoroethylene (PTFE) high- and low-pressure seal designs lead the industry in durability, long life, and performance; Superior end caps contain low-pressure seals to prevent external contaminants from entering the actuator and reduce leakage; Bonded polymer bearings prevent bearing wear on the piston rod and end caps at high speeds; Internal linear variable displacement sensor provides displacement signal for position feedback in closed-loop servo control applications; Hydraulic buffer protects the end caps during full-stroke high-speed operation.

TECHNICAL SPECIFICATIONS

MODEL	RATED LOAD (KN)	MEASUREMENT ACCURACY			DYNAMIC TEST			CONTROL METHOD
KS 8244.11	15	Force	Displac ement	Defor mation	Test frequency Hz	Test amplitude mm	Test waveform	
KS 8244.12	25	Better than ±0.5% of indication accuracy	Better than ±0.5% of indication accuracy	Better than ±0.5% of indication accuracy	0.01-50	Determine the amplitude and frequency according to the pumping station discharge	Sine, Triangle, Square, Ramp, Trapezoidal, and Custom Functions	Force, deforma tion, displace ment, closed loop control
KS 8244.21	50							
KS 8244.20	68							
KS 8244.22	100							
KS 8244.23	150							
KS 8244.31	250							
KS 8244.41	500							
KS 8244.51	1000							

BUILD A FATIGUE TEST SYSTEM

Open structure test system, including main frame, hydraulic power system, hydraulic pipeline system and hydraulic distribution system. Provide various types of general dynamic and static test systems for performance testing and high-strength material testing in aerospace, automotive engineering, railway engineering, civil engineering, etc. Most large-scale structural test facilities are composed of high-strength self-reaction frames, reaction frames, reaction walls, etc.
According to different application scenarios, various forms such as cast structure reaction platforms and concrete mechanism reaction rails can be provided to meet large-scale multi-functional testing!

HYDRAULIC POWER UNITS

The KASON 515 Series silent hydraulic power source has extremely low noise level and excellent energy efficiency ratio, which can greatly improve the power efficiency and minimize the cooling water consumption. The hydraulic oil source can be equipped with remote pressure, temperature and liquid level monitoring functions. The large flow hydraulic power system can also be equipped with on-demand oil supply function, so that the hydraulic power system can adjust the flow at any time according to the task needs of the test system, reducing energy consumption and cooling water consumption.

TECHNICAL SPECIFICATIONS

WORKING PRESSURE	21MPA (3000PSI)
Oil pump type	Variable displacement piston pump
Motor type	Oil immersed
Filtering method	Full flow return oil filter
Oil tank material	304
Maximum ambient operating temperature	40℃
Minimum ambient operating temperature	5℃