



SANTAM

Materials Testing Equipment

Since
1991



General
Catalogue

Designing & Manufacturing of

Materials Testing Equipment

List of products



STM-Series
Universal Testing Machine
Servo Electro-Mechanical model

1 SRT-Series
Relaxation Testing Machine
Servo Electero-Mechanical Model

STD-Series
Universal Testing Machine
Electro Hydraulic Actuator - Closed Loop

7 SIT-Series
Impact Testing Machine
Charpy electrical lift & brake-for metals

SAF-Series
Axial Fatigue Testing Machine
High Response Servo Hydraulic - For Metals

9 SDWT-Series
Drop Weight Impact Testing Machine

STM-Series
Creep Testing Machine
Servo Electero-High Temperatur

12 SBR-Series
Bend & Rebend Testing Machine
LCD display - Digital control

SCT-Series
Creep Testing Machine
Dead Weight Loading - 1000° C

STW-Series
Torsion & Twist Test
Twist & Torsion Test, Computerized, 300N.m, for Wires

STM-Series
Universal Testing Machine
Heating Chamber

JAF-Series
Dynamic Actuator

SUH-Series
Digital Universal Hardness Tester
Indentation ,Hardness
(Brinell ,Rockwell ,Vickers)

JTP-Series
Static Actuator
Proportional Hydraulic Valve

16

17

19

20

21

22

23



JTD-Series
Static Actuator
Electro-Hydraulic Actuator – EHA

24

Concrete-Series
Dynamic & Static Testing Machine
For accurate direct compression ,Bending & Ten-
sile Tests of Concrete

31

SAFE-Series
Shaking Table Testing Machine
Servo Hydraulic Valve

25

Refractory
CCS ,MOR ,HMOR ,RUL & CIC Testing Machine

32

STM-Series
Horizontal Tensile Testing Machine
Servo-Electrical & Hydraulic Machine

26

Other Special Machines Designed
by SANTAM

33

STM-Series
Reference standard measurement machine
load cell Calibrator (Force Calibrator)

27

Rheometer-Series
Rubber Rheometer

34

STM-Series
Compressive strength tests
CCS of Iron Ore Pellets & Catalyst
Universal Testing Machine (Servo Electrical)

28

SMF-350
Melt Flow Index
Procedure A ,B ,C , two zones -automatic

35

Asphalt-Series
Asphalt Testing Mashing
Standard AASHTO , EN , ASTM , BS

29

SPH-Series
Hot Press
(For Preparation of Polymer Sheets)

36

Triaxial-Series
Dynamic & Static Triaxial Testing Machine
triaxial-shear-test-and-shear-strength-proper-
ties-of-soil and Rock

30

Other Special Machines Designed
by SANTAM

37

MV-Series
Die For Punching Speciments

38

Theory of Machine Teaching Equipment

39



شرح مختصری از شرکت سنتام

شرکت طراحی مهندسی سنتام با هدف طراحی و ساخت تجهیزات آزمایشگاهی فنی و مهندسی در ایران در سال ۱۳۷۰ بنیانگذاری شد. این مرکز بزرگترین تولید کننده و صادر کننده تجهیزات آزمایشگاهی حوزه خواص مکانیک در خاورمیانه میباشد که در فضای تولیدی بیش از ۵۰۰۰ متر مربع فعالیت نموده و بیش از ۱۷۵ نوع دستگاه تست مختلف و ۱۲۰۰ نوع ضمايم متنوع در این حوزه طراحی و تولید نموده است.

مجموعه دستگاه های تست خواص مکانیکی مواد در ظرفیت و مدل های مختلف ، دستگاه های بررسی طول عمر و دوام ، تستهای رئولوژیک لاستیک ها و الاستومرها ، انواع دستگاه های آماده سازی ، دستگاه های آزمایشگاه مقاومت مصالح و دینامیک ماشین و ارتعاشات ، بخشی از تولیدات این شرکت می باشند .

سنتام به عنوان شرکتی دانش بنیان و فعال در زمینه دستگاه های خواص مکانیکی مدرن افتخار آن را دارد که بسیاری از محصولات و تولیدات آن برای اولین بار توسط این شرکت در ایران طراحی شده اند و شرکت در این حوزه کاملاً بومی و برپایه نیروهای متخصص استوار است .

همچنین دانش فنی کلیه اجزاء تجهیزات (مکانیک ، کنترل ، الکترونیک ، نرم افزار ، ابزار دقیق) و مراحل طراحی و ساخت قطعات و ضمايم جانبی آنها در این شرکت مطابق استانداردهای بین المللی می باشد و از مراکز معتبر علمی پژوهشی و صنعتی ، تأییدیه فنی و کیفی دریافت نموده اند.

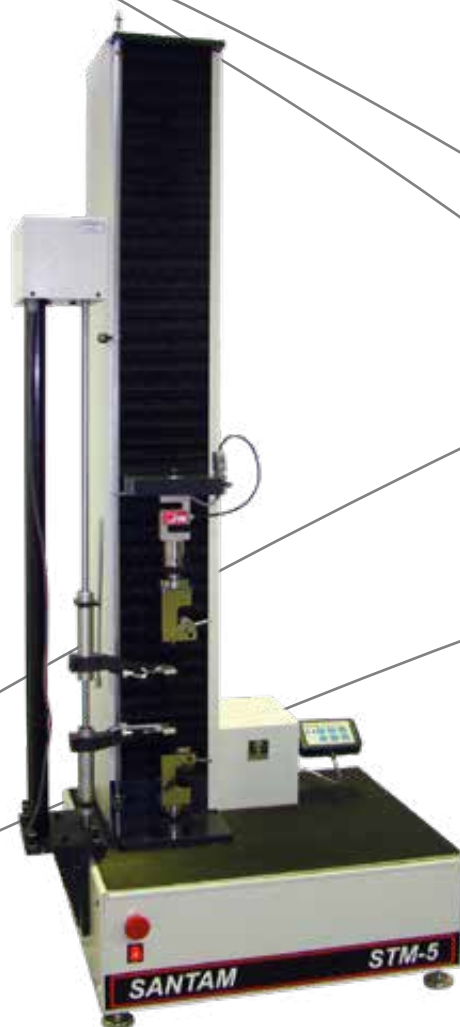
تولیدات این شرکت به بیش از ۴۰۰۰ مرکز مهم صنعتی تولیدی ، پژوهشی و آموزشی در ایران و ۲۲ کشور در دنیا ارائه شده است ، این مجموعه تجربه طراحی و ساخت دستگاه های مختلف را در بیش از ۱۲۵ صنعت مختلف داشته است .

از دیگر امتیازات شرکت اخذ ده ها مجوز و تقدیرنامه از سازمان ها ، مراکز و جشنواره بین المللی و همچنین اخذ گواهی نامه ISO 9001:2015 مدیریت کیفیت ، گواهی تطابق محصولات با الزامات CE Declaration Of Conformity جهت صادرات به اروپا و همچنین تأییدیه کالیبراسیون از مراجع ذی صلاح می باشد .

تولیدات این شرکت در حوزه های مختلف صنعتی ذیل ارائه گردیده است :

انواع مواد فولادی ، انواع فلزات غیر آهنی و صنایع پلاستیک ، لاستیک و پلیمرهای تقویت شده ، مراکز مرتبط با خاک ، بتن ، گچ و آسفالت و صنایع چوب و فراوردهای چوبی ، انواع فوم و عایق ، پارچه و نخ و تولید کنندگان تجهیزات پزشکی و دارویی ، تولید کنندگان انواع چسپ و رزین ، نسوز و سرامیک ، تولید کنندگان لوازم خانگی ، قطعات خودرو ، صنعت ریلی ، دریایی و هوایی ، مجموعه سازان ، صنعت ساختمان ، واحد های پتروشیمی ، مراکز استاندارد و آزمایشگاه های همکار و مراکز خدمات تست ، پژوهشگاه ها ، دانشگاه ها و واحد های آموزشی





STM-5
*Universal Testing Machine
 Servo Electro-Mechanical model
 5 kN Capacity*

STM-Series

**Universal Testing Machine
 Servo Electro-Mechanical model**



STM-1



STM-1M1



STM-5



STM-5D

Model	Capacity (kg)	Speed (mm/min)	Space between columns (mm)	Distance between the flanges (mm)	Description
STM-1	100	0.001~2000	Infinite (100)	860	Single Columns
STM-1M1	100	0.001~2000	Infinite (100)	1100	Single Columns- Long Course
STM-5	500	0.001~1000	infinite(70)	1200	Single Columns
STM-5D	500	0.001~1000	300	1100	Two- Columns



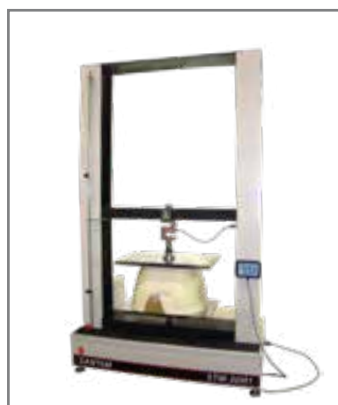
STM-20
Universal Testing Machine
Servo Electro-Mechanical model
20 kN Capacity

STM-Series

Universal Testing Machine
Servo Electro-Mechanical model



STM-20



STM-20M1



STM-20M1



STM-20M3

Model	Capacity (kg)	Speed (mm/min)	Space between columns (mm)	Distance between the flanges (mm)	Description
STM-20	2000	0.001~1000	380	1000	Normal
STM-20M1	2000	0.001~1000	700	1000	Wide mouth
STM-20M2	2000	0.001~1000	700	1200	Wide mouth - Long Course
STM-20M3	2000	0.001~1000	550	1000	Wide mouth



STM-50
*Universal Testing Machine
 Servo Electro-Mechanical model
 50 kN Capacity*

STM-Series

**Universal Testing Machine
 Servo Electro-Mechanical model**



STM-50



STM-50M1



STM-50M3



STM-50

Model	Capacity (kg)	Speed (mm/min)	Space between columns (mm)	Distance between the flanges (mm)	Description
STM-50	5000	0.001~500	420	1300	Normal
STM-50M1	5000	0.001~500	700	1150	Wide mouth
STM-50M3	5000	0.001~500	550	1150	Wide mouth



STM-250
Universal Testing Machine
Servo Electro-Mechanical model
250 kN Capacity



STM-Series

Universal Testing Machine
Servo Electro-Mechanical model



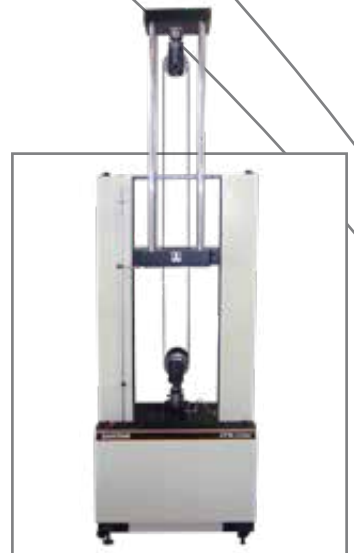
STM-150



STM-150ML



STM-150H



STM-250H

Model	Capacity (TON)	Speed (mm/min)	Space between columns (mm)	Distance between the flanges (mm)	Description
STM-150	15	0.001~500	550	1100	Normal
STM-150H	15	0.001~500	550	2600	Long Course
STM-150L	15	0.001~500	550	1800	Long Course
STM-250	25	0.001~250	600	1150	Normal
STM-250L	25	0.001~250	600	1500	Long Course
STM-250S	25	0.001~250	600	760	Low Course



STM-400SB1
*Universal Testing Machine
 Servo Electro-Mechanical model
 400 kN Capacity*

STM-Series

**Universal Testing Machine
 Servo Electro-Mechanical model**



STM-400



STM-400SB1



STM-400H



STM-600

Model	Capacity (TON)	Speed (mm/min)	Space between columns (mm)	Vertical test space travel (mm)	Description
STM-400	40	0.001~200	550	700	Normal
STM-400H	40	0.001~200	550	1800	Long Course
STM-400SB1	40	0.001~200	550	700	Lateral crosshead
STM-600	60	0.001~200	550	700	Normal
STM-600M	60	0.001~200	550	800	Long Course



STM-2000

Universal Testing Machine
Servo Electro-Mechanical model
2000 kN Capacity

STM-Series

Universal Testing Machine
Servo Electro-Mechanical model



STM-1000M



STM-1200



STM-1500



STM-2000

Model	Capacity (TON)	Speed (mm/min)	Space between columns (mm)	Vertical test space travel (mm)	Description
STM-1000M	100	0.001~180	730	700	Normal
STM-1200	120	0.001~170	700	800	Normal
STM-1500	150	0.001~150	850	1200	Normal
STM-2000	200	0.001~150	910	1000	Normal



STD-600B
 Universal Testing Machine
 Electro Hydraulic Actuator - Closed Loop
 600 kN Capacity

STD-Series

Universal Testing Machine
Electro Hydraulic Actuator - Closed Loop



STD-600



STD-600B



STD-1000



STD-1000M

Model	Capacity (TON)	Speed (mm/min)	Maximum Jack Stroke (mm)	Space between columns (mm)	Vertical test space travel (mm)	Description
STD-600	60	0.01~150	500	650	1000	Manually Crosshead Lift & Clamp
STD-600B	60	0.01~150	300	650	1000	Hydraulic Crosshead Lift & Clamp
STD-1000	100	0.01~150	300	700	1000	Hydraulic Crosshead Lift & Clamp
STD-1000M	100	0.01~150	300	1050	1000	Hydraulic Crosshead Lift & Clamp



STD-1500
Universal Testing Machine
Electro Hydraulic Actuator - Closed Loop
1500 kN Capacity

STD-Series

Universal Testing Machine
Electro Hydraulic Actuator - Closed Loop



STD-1200



STD-1500



STD-2000



STD-2000

Model	Capacity (TON)	Speed (mm/min)	Maximum Jack Stroke (mm)	Space between columns (mm)	Vertical test space travel (mm)	Description
STD-1200	120	0.01~150	300	700	700	Manually Crosshead Lift & Clamp
STD-1500	150	0.01~150	300	700	700	Hydraulic Crosshead Lift & Clamp
STD-2000	200	0.01~150	150	700	1000	Hydraulic Crosshead Lift & Clamp
STD-2000B	200	0.01~150	150	700	2000	Hydraulic Crosshead Lift & Clamp



SAF-50M1

Axial Fatigue Testing Machine
Heating & Cooling Chamber (-20 up to +80)°C
High Response Servo Hydraulic
50 kN Capacity

SAF-Series

Axial Fatigue Testing Machine
High Response Servo Hydraulic - For Metals

Servo Valve MOOG

20 ,40 ,63 ,80 ,126 Liter / Min



SAF-10M



SAF-10



SAF-50



SAF-50B

Model	Capacity (TON)	Linear Speed 20 & 40 & 63 & 80 & ... Liter / Min mm/sec	Maximum Jack Stroke (mm)	Distance Between Columns (mm)	Vertical test space travel (mm)	Description
SAF-10M	1	120	100	420	300	Down Table
SAF-10	1	500 ,1000 , 1570 , 2000 , 3140	100	420	300	Down Table
SAF-25	2.5	200 ,400 , 630 , 800 , 1260	100	500	300	Down Table
SAF-50	5	100 ,200 , 315 , 400 , 630	100	500	250	Down Table
SAF-50B	5	100 ,200 , 315 , 400 , 630	100	500	250	Table Top
SAF-50M1	5	100 ,200 , 315 , 400 , 630	100	700	450	Wide mouth



SAF-300M1
Axial Fatigue Testing Machine
High response servo hydraulic
300 kN Capacity



Servo Valve MOOG
20 , 40 , 63 , 80 , 126 Liter / Min

SAF-Series

**Axial Fatigue Testing Machine
High Response Servo Hydraulic - For Metals**



SAF-100



SAF-100B

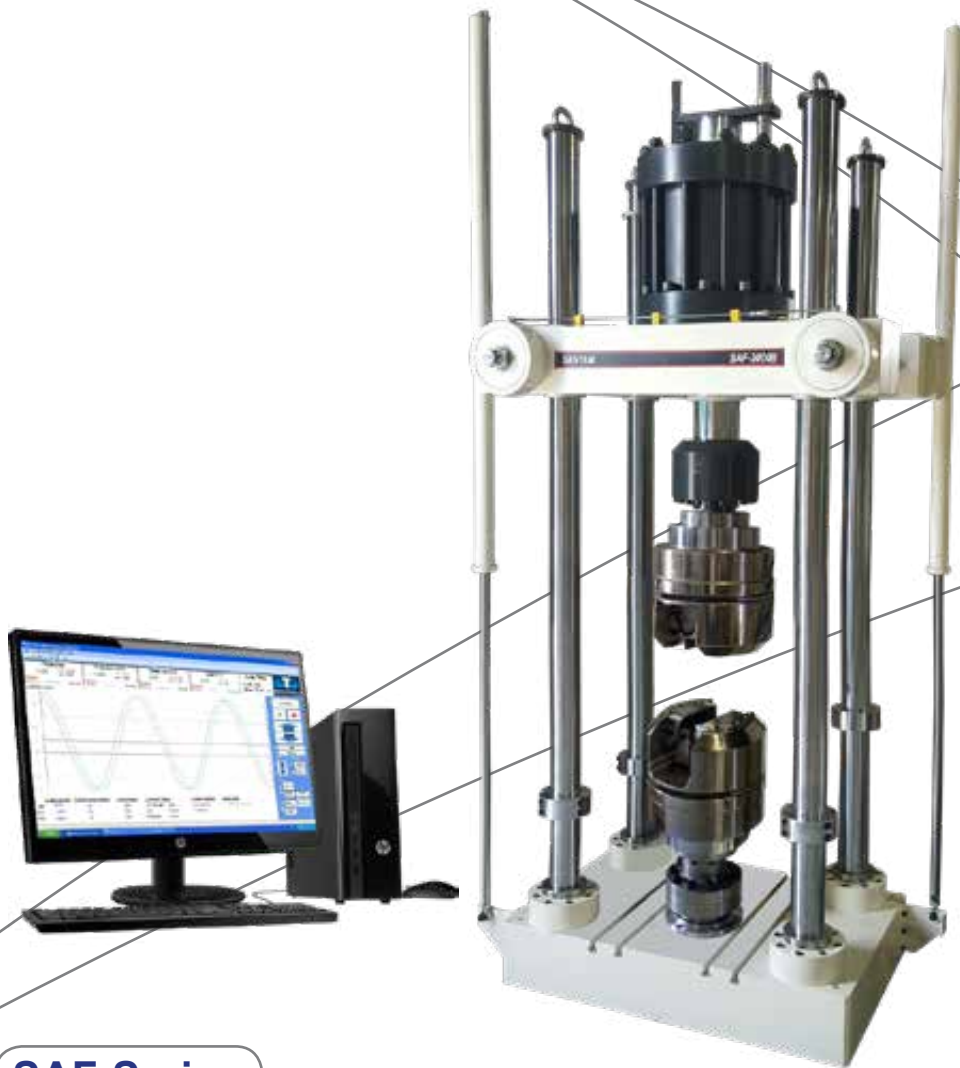


SAF-250



SAF-250B

Model	Capacity (TON)	Linear Speed 40 & 63 & 80 & ... Liter / Min mm/sec	Maximum Jack Stroke (mm)	Distance Between Columns (mm)	Vertical test space travel (mm)	Description
SAF-100	10	100 , 157 , 200 , 314	150	700	700	Down Table
SAF-100B	10	100 , 157 , 200 , 314	150	700	600	Table Top
SAF-250	25	40 , 63 , 80 , 126	150	680	800	Down Table
SAF-250B	25	40 , 63 , 80 , 120	150	680	550	Table Top
SAF-300M1	30	52 , 65 , 105	150	1000	780	Down Table



SAF-2000B
Axial Fatigue Testing Machine
High response servo hydraulic- for metals
2000 kN Capacity



Servo Valve MOOG
 20 ,40 ,63 ,80 ,126 Liter / Min

SAF-Series

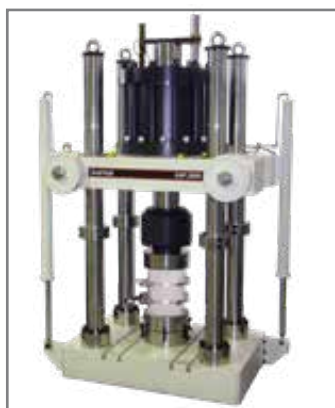
Axial Fatigue Testing Machine
High Response Servo Hydraulic - For Metals



SAF-600



SAF-1000



SAF-2000



SAF-3000

Model	Capacity (TON)	Linear Speed 40 & 63 & 80 & ... Liter / Min mm/sec	Maximum Jack Stroke (mm)	Distance Between Columns (mm)	Vertical test space travel (mm)	Description
SAF-600	60	16 , 25 , 32 , 50	150	600	500	Table Top
SAF-1000	100	10 , 15 , 19 , 30	150	650	500	Table Top
SAF-2000	200	5 , 7.5 , 9.5 , 15	150	700	1000	Table Top
SAF-2000B	200	5 , 7.5 , 9.5 , 15	150	880	2000	Table Top
SAF-3000	300	3.3 , 5.1 , 6.6 , 10	150	700	500	Table Top



STM-20M3
Creep Testing Machine
Servo Electro-High Temperatur
20 kN Capacity
HMI(1000)°C



SCT-30B
Creep Testing Machine
Dead Weight Loading
30 kN Capacity
(1000)°C

STM-Series

**Creep Testing Machine
Servo Electro-High Temperatur**

SCT-Series

**Creep Testing Machine
Dead Weight Loading - 1000° C**



STM-20M2



STM-20M3



STM-50M3



STM-100

Model	Capacity (TON)	Operation	Type of furnace	Temperatures	Ability to install extensometer	Type of test
STM-20M2	2	Servo Electrical	Single zones	1500 ° C	✓	Creep Stress Rela1 SSRT, HE Tensile Cmpression ISO 204 ASTM E139 & E328 EN 2002-005 ASTM G129 & E21 ASTM F519 Constant Load , Stress Constant Stress Rupture , Creep Curve Relaxation , Stress Corrosion Cracking , Slow Strain Rate Test
STM-20M3	2	Servo Electrical	Three zones	1000 ° C	✓	
STM-50M3	5	Servo Electrical	Three zones	1000 ° C	✓	
STM-50M2	5	Servo Electrical	Single zones	1500 ° C	✓	
STM-100	10	Servo Electrical	Three zones	1000 ° C	✓	
SCT-30B	3	Dead Weight Loading	Three zones	1000 ° C	✓	



STM-20M1
Strain Hardening Machine
Standard ISO 18488
Champer & Non Contact Extensometer
20 kN Capacity
(100)°C



STM-Series

Hot Tensile & Compression Test



STM-5



STM-20



STM-20



STM-20M1

Model	Type of furnace	Temperatures	Ability to install extensometer	Type of test	Ability to install on tensile test
TCS-80	Single zone	-20 to +80 ° C	--	Tensile , Compression , Bending	STM-20M1, STM-50M1
TCS-80B	Single zone	-40 to +80 ° C	--		STM-20M1, STM-50M1
TCT-100	Single zone	100 ° C	--	Tensile	STM-5
TCT-200	Single zone	200 ° C	--	Tensile	STM-20 , STM-50 , STM-150 , STM-250
TCT-1000	Three zones	1000 ° C	✓	Tensile	STM-20 , STM-50 , STM-150 , STM-250
TCG-1000	Single zone	1000 ° C	✓	Compression	STM-20 , STM-50 , STM-150 , STM-250
TCT-1500	Single zone	1500 ° C	✓	Tensile	STM-20 , STM-50 , STM-150 , STM-250
TCS-1500B	Single zone	1500 ° C	--	Bending	STM-20M1, STM-50M1



STM-20HMOR
 HMOR Testing Machine
 With high temperature up to 1500 °C
 Servo Electro-Mechanical Model
 20 kN Capacity

STM-Series

Hot Tensile & Compression Test



STM-50



STM-150



STM-250



STM-250

Model	Type of furnace	Temperatures	Ability to install extensometer	Type of test	Ability to install on tensile test
TCS-80	Single zone	-20 to +80 ° C	--	Tensile , Compression , Bending	STM-20M1, STM-50M1
TCS-80B	Single zone	-40 to +80 ° C	--		STM-20M1, STM-50M1
TCT-100	Single zone	100 ° C	--	Tensile	STM-5
TCT-200	Single zone	200 ° C	--	Tensile	STM-20 , STM-50 , STM-150 , STM-250
TCT-1000	Three zones	1000 ° C	✓	Tensile	STM-20 , STM-50 , STM-150 , STM-250
TCG-1000	Single zone	1000 ° C	✓	Compression	STM-20 , STM-50 , STM-150 , STM-250
TCT-1500	Single zone	1500 ° C	✓	Tensile	STM-20 , STM-50 , STM-150 , STM-250
TCS-1500B	Single zone	1500 ° C	--	Bending	STM-20M1, STM-50M1



SUH-200B
*Digital Universal Hardness Tester
 Indentation ,Hardness
 (Brinell ,Rockwell ,Vickers)*

SUH-Series

**Digital Universal Hardness Tester
 Indentation ,Hardness (Brinell ,Rockwell ,Vickers)**



STM-50H



SHD



STM-1M



SUH-200

Model	Hardness Type	Operation	Standard	Test Methods
SUH-200	For metals	Digital Universal	ASTM E18 , ISO6508-1 , ASTM E10 , ISO6506-1 , ASTM E92 , ISIRI 7811 & 7809	Rockwell ,Rockwell Superficial ,Vickers , Brinell
SUH-200B	For metals	Digital Universal		
STM-1M	For metals	Digital Universal	ASTM E10 , ASTM A370 , E8M	Brinell Hardness
SHD-05	For Rubber	Dial Gage	DEN 53505 , ISO 868-7619 , ASTM D 2240	Shore A
SHD-25	For Plastic	Dial Gage	DEN 53505 , ISO 868-7619 , ASTM D 2240	Shore D
STM-50H	For metals	Digital Universal	ISO 6506 , ASTM E10 , ISIRI 7809	Brinell



SRT-400B
Relaxation Testing Machine
Servo Electro-Mechanical model
400 kN Capacity



SRT-Series

Relaxation Testing Machine
Servo Electro-Mechanical Model



SRT-100B



SRT-400B

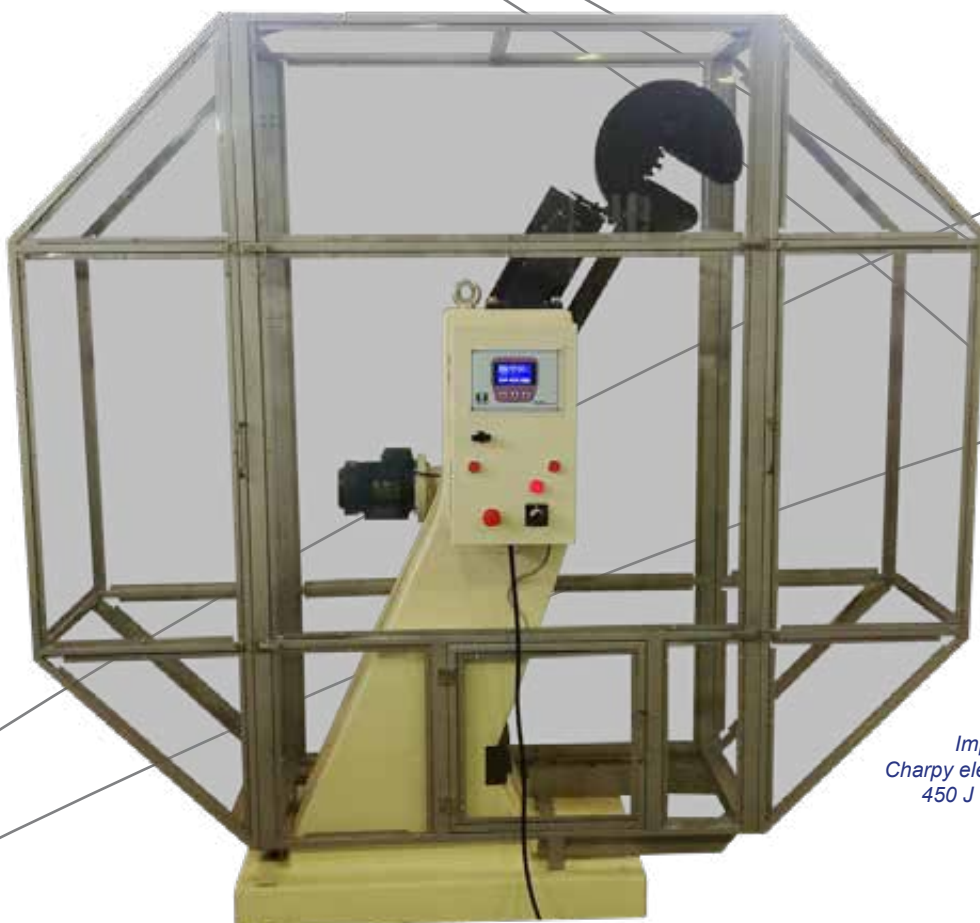


SRT-100M



SRT-400M

Model	Capacity (TON)	Operation	PC Strand Size	Ability to install extensometer	Standard	Type of test
SRT-100B	10	Servo Electrical	1/2 " , 0/6 "	✓	ISO/FDIS 15630-3 2001(E) Under Temperature Conditions of 20 ° C	PC Strand PC WIRE
SRT-400B	40	Servo Electrical	0.6 " , 1/2 " , 3/8 "	✓		
SRT-100M	10	Dead Weight Loading	1/2 " , 0/6 "	✓		
SRT-400M	40	Dead Weight Loading	0.6 " , 1/2 " , 3/8 "	✓		



SIT-450

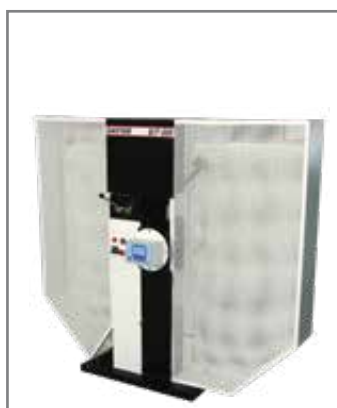
*Impact Testing Machine
Charpy electrical lift & brake-for metals
450 J Capacity Fully Automatic*

SIT-Series

Impact Testing Machine
Charpy electrical lift & brake-for metals



SIT-600



SIT-300E

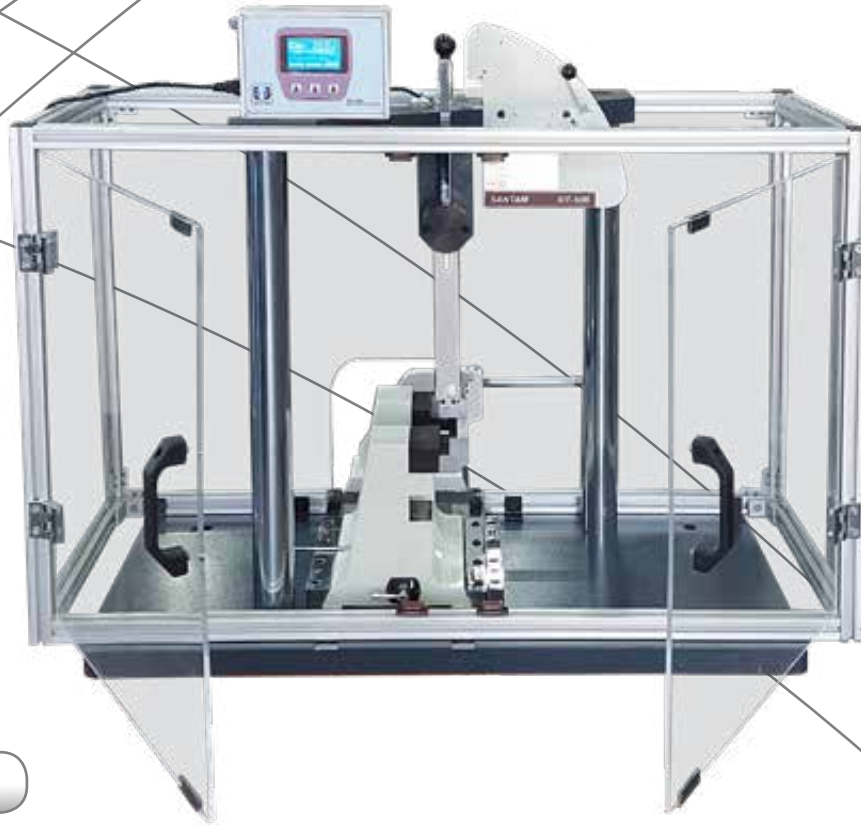


SIT-200B



SIT-100

Model	Capacity	Lifting system	Brake	System user	Test Method	Standard	Application
SIT-100	100 J	--	--	Digital Display	Charpy	ASTM-D143, DIN EN, ISO 148-2, DIN 52189	wood Testing
SIT-200B	200 J	--	--	Digital Display	Charpy	ASTM E23, ISO 148, EN-10045-2	Metal Testing
SIT-300E	300 J	✓	✓	Digital Display	Charpy	ASTM E23, ISO 148, DIN 50115, EN 10045	Metal Testing
SIT-450	450 J	✓	✓	Digital Display	Charpy		Metal Testing
SIT-600	600 J	✓	✓	Digital Display	Charpy		Metal Testing



SIT-50B
Impact Testing Machine
Charpy electrical lift &
brake-for metals
50 J Capacity

SIT-Series

Impact Testing Machine
Charpy electrical lift & brake-for metals



SIT-20E



SIT-5

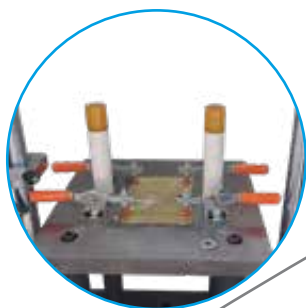


BHO-CA



SNP-390

Model	Capacity	Brake	System user	Test Method	Standard	Application
SIT-5	5 J	--	Dial Plate	Charpy	1164 ISIRI	Porcelain and ceramics
SIT-20E	20 J	✓	Digital Display	Izod, Charpy ,Tensile	ASTM D256, ISO 179/180 & ISO 13802	Polymer Testing
SIT-50B	50 J	✓	Digital Display	Izod, Charpy ,Tensile	ASTM-D256 & D6110 ,ISO 179 & 180 , DIN 50115 , ISO 9854 , ISIRI 12828	Polymer Testing
SIT-50	50 J	✓	Digital Display	Charpy	ASTM-E23	Metal Testing



SDWT-100
Drop weight Testing Machine
ASTM D7136/D7136M-15
100 J Capacity

SDWT-Series

Drop Weight Impact Testing Machine

Model	Capacity	Lifting System	Second Impact System	System User	Test Method	Standard	Application
SDWT-100	100 J	✓	✓	Control keys	Drop weight	ASTM D7136/D7136M-15	Composite Sheets
SDWT-200	200 J	✓	✓	Control keys	Drop weight	DIN EN744 , ASTM D277, ISO 3124 , ISIRI 11438	Polymer Pipes
SDWT-500	500 J	✓	✓	Control keys	Drop weight	---	Steel Parts



SBR-200B
200 kN Capacity



SGB-200
200 kN Capacity

SBR-Series

Bend & Rebend Testing Machine
LCD display - Digital control

SGB-Series

Guided Bend Testing Machine
Hydraulic operation for rebar & flatbar & Platen



SBR-200



SBR-200C



SGB-200B



SGB-600

Model	Capacity	Operation	System user	Type of test	Standard	Operation
SBR-200	4500 N.m	Electro mechanical	Digital Display	Bend & Re-bend Concrete Steel	ASTM-A615 ISIR 3132	Diameter Concrete steel 8 up 32
SBR-200B	4500 N.m	Electro mechanical	Touch Screen			Diameter Concrete steel 8 up 40
SBR-200C	4500 N.m	Electro mechanical	AC ServoControl			
SGB-200	20 Ton	Hydraulic	Control keys	Bending Concrete Steel, Rebar , Sheet , Weld	ISIRI 3132 , EN 10025 , ISIRI 1791, ASTM E190 , ISO 9809 , ASTM A370 , API 5L ,AWWA , ISO 4998	Bending of all types of sheets and wires with a support width of 50 mm
SGB-200B	20 Ton	Hydraulic	Control keys			Bending of all types of sheets and wires with a support width of 100 mm



STW-300
Torsion Testing Machine
Servo control model
300 N.m Capacity

STW-Series

Torsion & Twist Test
Twist & Torsion Test, Computerized, 300N.m, for Wires



STW-3000



STW-300E



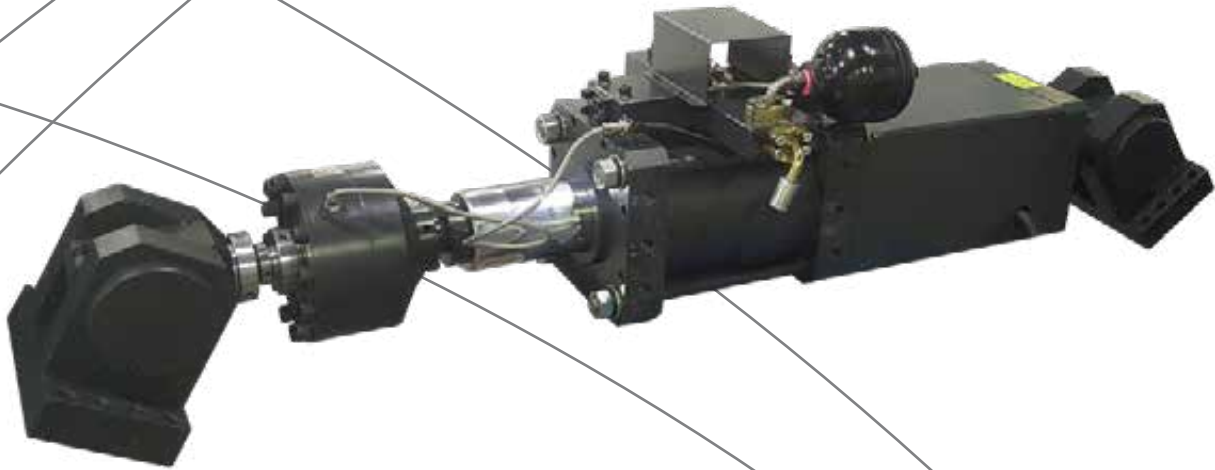
STW-25



STS-05

Model	Capacity	Operation	System user	Type of test	Hot torsional Test
STS-05	0.005 N.m	Mechanical/ Manual	Dial Plate	Twisting thin polymer strips	--
STW-25	25 N.m	Electromechanical	Digital Display	Twisting of ferrous and non-ferrous wires	--
STS-50B	50 N.m	Mechanical/ Manual	Computer	Torsion and Cyclic Testing	--
STW-300	300 N.m	Electromechanical - Servo Control	Fully Computer	Torsion, Twist and Cyclic Testing	✓
STW-500	500 N.m	Electromechanical - Servo Control	Fully Computer	Torsion, Twist and Cyclic Testing	✓
STW-5000	5000 N.m	Hydraulic - Servo Control	Fully Computer	Torsional Fatigue Test	✓

JAF-250
Dynamic Actuator
Servo Hydraulic Valve
250 kN Capacity



JAF-Series

**Dynamic Actuator
Servo Hydraulic Valve**



**Servo Valve
MOOG**



Load Cell



AFC Interfaces



Software



Power Pack

Model	Capacity (tonf)	Jack Courses mm	Linear Speed(Velocity) mm/sec	Displacement resolutionmm	Shaft diameter mm	Jack weight Kg
JAF-25	2.5	200	200/400/630/800/1260	0.001	40	65
JAF-50	5	200	100/200/315/400/630	0.001	55	100
JAF-100	10	200	50/100/157/200/314	0.001	75	170
JAF-250	25	200	40/63/80/126	0.001	100	250
JAF-500	50	200	20/31/40/62	0.001	130	400
JAF-1000	100	200	10/15/19/30	0.001	150	650
JAF-2000	200	200	5/7.5/9.5/15	0.001	180	950

JTP-500
Static Actuator
Proportional Hydraulic Valve
 500 kN Capacity



JTP-Series

Static Actuator
Proportional Hydraulic Valve



Proportional Valve



Load Cell



SCB Interfaces



Software



Hydraulic table

Model	Capacity (tonf)	Jack Courses mm	Linear Speed(Velocity) mm/sec	Displacement resolutionmm	Shaft diameter mm	Jack weight Kg
JTP-50	5	200	0.01-500	0.001	55	100
JTP-250	25	200	0.01-300	0.001	100	250
JTP-500	50	200	0.01-200	0.001	130	400
JTP-1000	100	200	0.01-150	0.001	150	650
JTP-2000	200	200	0.01-120	0.001	180	950

JTD-600
Static Actuator
Electro-Hydraulic Actuator – EHA
600 kN Capacity



JTD-Series

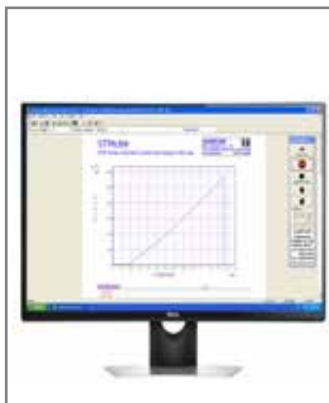
Static Actuator
Electro-Hydraulic Actuator – EHA



Load Cell



SCB Interfaces

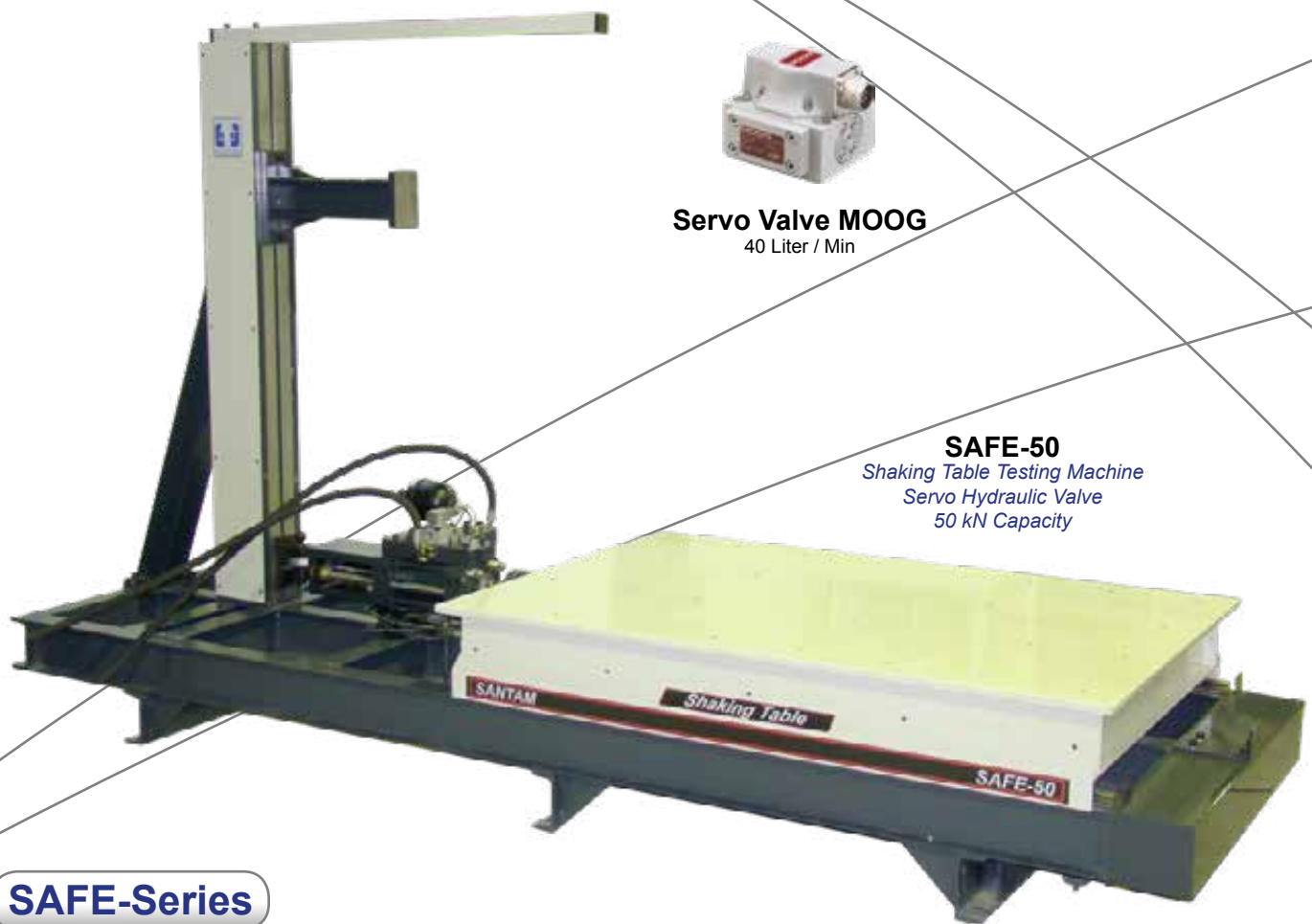


Software



Hydraulic table & Servo Motor

Model	Capacity (tonf)	Jack Courses mm	Linear Speed(Velocity) mm/sec	Displacement resolutionmm	Shaft diameter mm	Jack weight Kg
JTD-400	40	200	0.01-200	0.001	100	320
JTD-600	60	200	0.01-200	0.001	130	440
JTD-1000	100	200	0.01-150	0.001	150	630
JTD-2000	200	200	0.01-120	0.001	180	940



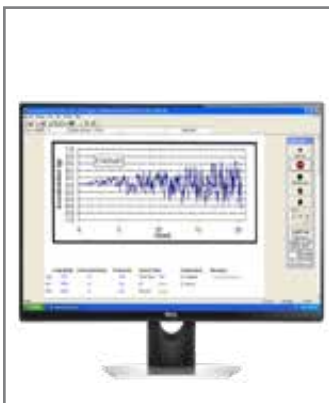
Shaking Table Testing Machine Servo Hydraulic Valve



AFC Interfaces



Load Cell



Software



Power Pack

Model	Capacity (TON)	Dimensions of the table (mm)	Maximum Jack Stroke (mm)	Dynamic load cell	Displacement Resolution	Acceleration	Hydraulic unit Liter/Min	Linear Speed mm/sec	Operating frequency
SAFE-50	5	1050*1550	300	✓	0.001 mm	1.5 g	40	200	20 Hz
SAFE-100	10	2000*3000	300	✓	0.001 mm	1.5 g	63	150	20 Hz



STM-Series
Horizontal Tensile Testing Machine
Servo-Electrical & Hydraulic Machine
5/15/25/60/100 Ton

STM-Series

**Horizontal Tensile Testing Machine
Servo-Electrical & Hydraulic Machine**



Model	Capacity (TON)	Working length	Test Stroke without grip	Operation	System user	Ability to install extensometer	Application
SLM-50-5	5	5 m	500 mm	Servo Electrical	Fully Computer	✓	Capable of installing various Grip & Fixtures doing test on Cable, Steel Wire Rope, Ceramic Fasteners, Polymer & Steel Rope
SLM-250-4	25	5 m	500 mm	Servo Electrical	Fully Computer	✓	
SLM-600-10	60	10 m	1000 mm	Servo Electrical	Fully Computer	✓	
SLD-600-10	60	10 m	700 mm	Electro-Hydraulic	Fully Computer	✓	
SLD-1000-10	100	10 m	700 mm	Electro-Hydraulic	Fully Computer	✓	
SLD-2000-12	200	12 m	800 mm	Electro-Hydraulic	Fully Computer	✓	



STM-Series

Reference standard measurement machine
load cell Calibrator (Force Calibrator)
ISO – 7500 , OIML R 60

STM-250LC
Reference standard measurement machine
load cell Calibrator (Force Calibrator)
ISO – 7500 , OIML R 60
250 kN Capacity



Load Cell



OCR



STM-2000LC



STM-1000LC

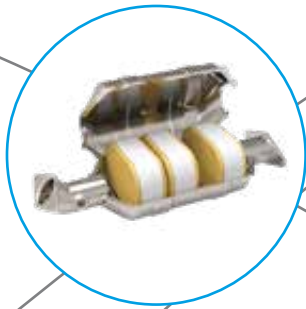


STM-250LC



STM-50LC

Model	Capacity (TON)	Speed (mm/min)	Operation	Load Cell Calibration	OCR	System User
STM-50LC	5	0.001~500	Servo Electrical	Tensile & Compression	✓	Fully Computer
STM-250LC	25	0.001~250	Servo Electrical	Tensile & Compression	✓	Fully Computer
STM-1000LC	100	0.001~180	Servo Electrical	Tensile & Compression	✓	Fully Computer
STM-2000LC	200	0.001~150	Servo Electrical	Tensile & Compression	✓	Fully Computer



Single Pellet Crush Strength of
Formed Catalyst Shapes Bulk Crush
strength of Catalysts



STM-20P

For Cold Crushing Strength (CCS) of fired iron ore pellets and reduced iron ore pellets according to ISO 4700 Standard and ASTM E 382-83 Standard.

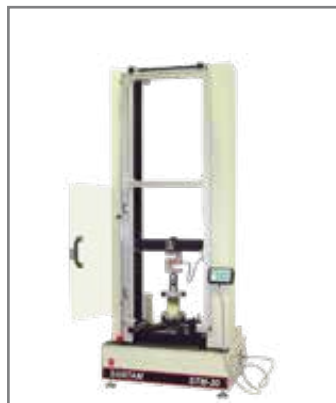
The equipment consists of a Electro-Mechanical Loading Unit (Screw Type) , with an Automatic Handler and Feeder for the samples
20 kN Capacity

STM-Series

Compressive strength tests
CCS of Iron Ore Pellets & Catalyst
Universal Testing Machine (Servo Electrical)



STM-1



STM-20

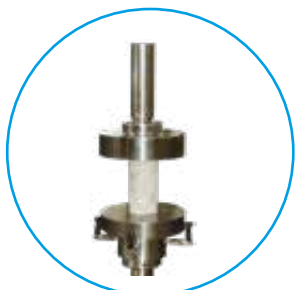


STM-20P



STM-150

Model	Capacity (kg)	Speed (mm/min)	System user	Application	Description	Standard
STM-1	100	0.001~2000	Fully Computer	Pellet and Catalyst test	---	ISO 4700 ASTM E 382-83 ASTM D-1472 ASTM D7084-4 ASTM C 1239-6
STM-20	2000	0.001~1000	Fully Computer	Pellet and Catalyst test	---	
STM-20P	2000	0.001~1000	Fully Computer	Automatic pellet testing	Equipped with feeder and linear modular	
STM-150	15000	0.001~500	Fully Computer	Briquette test	---	



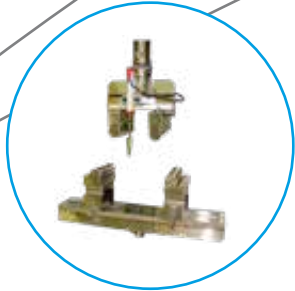
CAF250-165R



TF20-Tex



CF20-150C

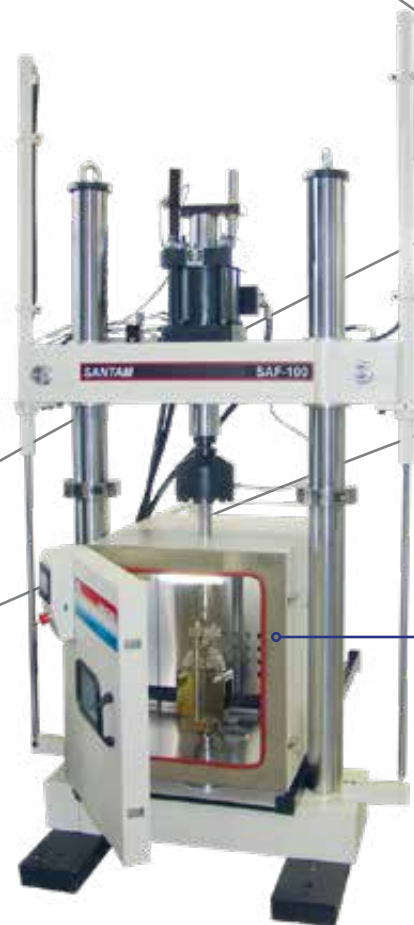


BF20-4PC

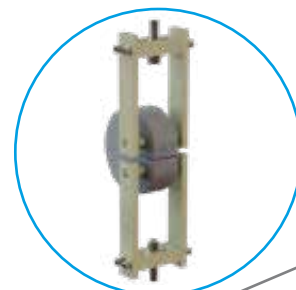
Asphalt-Series

Asphalt Testing Mashing
Standard AASHTO , EN , ASTM , BS

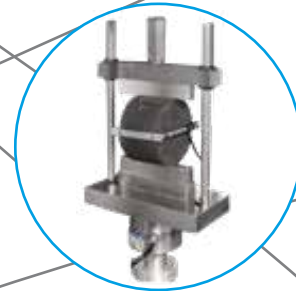
SAF-100
100 kN Capacity



TCS-80
Heating & Cooling Chamber
(-20 up to +80)°C



TCF10-150



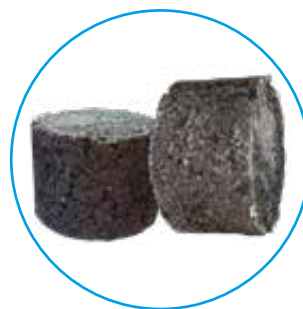
TCF20-150



BF20-3P15



EHR10-B



STM-20M1
Universal Testing Machine
Servo Electro-Mechanical Model
20 kN Capacity



BF20-4PF
Fatigue Four Point Bend
Prismatic Shaped Specimens
AASHTO T321-2014 , BS EN 12697-24D



SAF-50M1
Axial Fatigue Testing Machine
High Response Servo Hydraulic
50 kN Capacity



SAF-100
Axial Fatigue Testing Machine
High Response Servo Hydraulic
100 kN Capacity



SAF-2000B

*Dynamic Triaxial Testing Machine
triaxial-shear-test-and-shear-strength-properties-of-rock
Axial Fatigue Machine - Servo Hydraulic Valve
2000 kN Capacity*

Triaxial-Series

Dynamic & Static Triaxial Testing Machine
triaxial-shear-test-and-shear-strength-properties-of-soil and Rock



SAF-2000B



SAF-100



SAF-10M

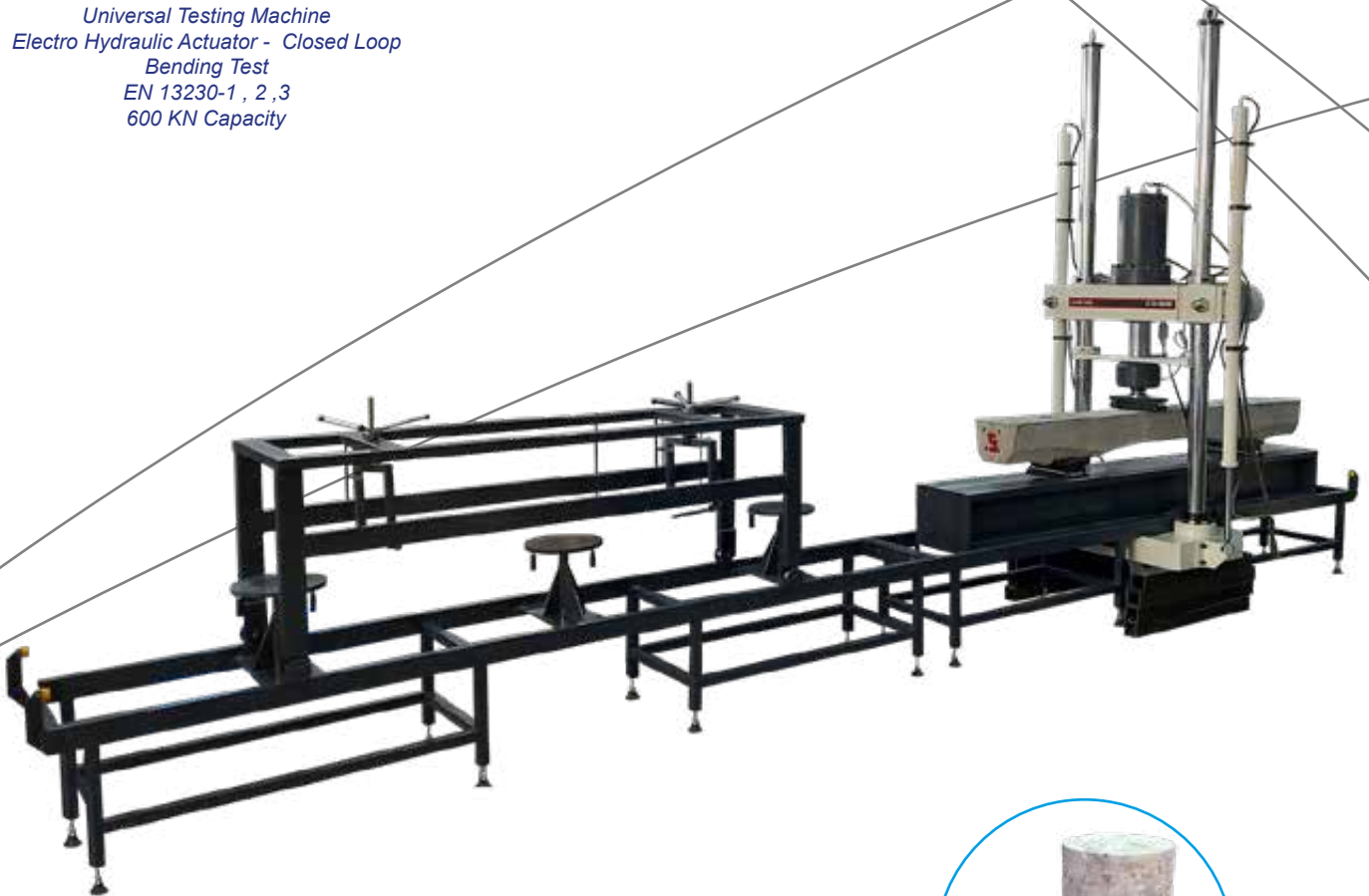


STM-2000

Model Specifications	Capacity (TON)	Operation		Test Methods	System user	Application
SAF-10M	1	Servo Electrical	Dynamic	Capability to apply a variety of periodic loads Sine, triangular, square, saw teeth and taking charts in the form of a pattern	Fully Computer	Ability to install a variety of Triaxial Cell
SAF-10	1	Servo Hydraulic			Fully Computer	
SAF-50	5				Fully Computer	
SAF-100	10				Fully Computer	
SAF-1000	100				Fully Computer	
SAF-2000	200	Fully Computer				
STM-600	60	Servo Electrical	Static	Doing accurate static Tensile, Compression, Step (Returnee) & Cyclic Tests considering linear motion speed	Fully Computer	
STM-1000	100				Fully Computer	
STM-2000	200				Fully Computer	

STD-600B

Universal Testing Machine
Electro Hydraulic Actuator - Closed Loop
Bending Test
EN 13230-1 , 2 ,3
600 KN Capacity



Concrete-Series

Dynamic & Static Testing Machine
For accurate direct compression ,Bending
& Tensile Tests of Concrete



STM-150
Universal Testing Machine
150 kN Capacity



STD-600
Universal Testing Machine
600 kN Capacity



STD-600B
Universal Testing Machine
600 kN Capacity



SAF-1000
High response servo hydraulic
1000 kN Capacity



STM-600
CCS Testing Machine
Universal Compression & Bending
Servo Electro-Mechanical model
600 kN Capacity



CF600-100RB
ASTM C133



CF600-8080RB
ASTM C133



BF150-3PB600
ASTM C133 , ASTM C198

Refractory

CCS ,MOR ,HMOR ,RUL & CIC Testing Machine
Ceramics ,Fire Brick , Castable Refractory ,
Fire Proof Concrete ,...



STM-20M3
CIC Testing Machine
Hot Compression & Creep
High Temperature up to 1000 °C
20 kN Capacity



STM-20HMOR
HMOR & RUL Testing Machine
With high temperature
up to 1000 & 1500 °C
20 kN Capacity



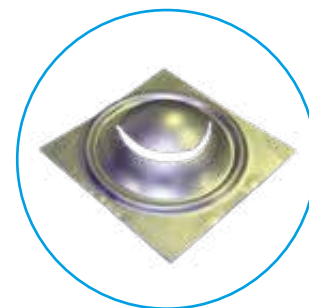
STM-50
MOR Testing Machine
Universal Compression & Bending
Servo Electro-Mechanical model
50 kN Capacity



STM-250
CCS Testing Machine
Universal Compression & Bending
Servo Electro-Mechanical model
250 kN Capacity



STE-200
*Erichsen (Sheet Metal Testing Machine)
 For Cupping Test, Deep-Drawing Cup
 Test 200 KN Capacity*



Other Special Machines Designed by SANTAM



STE-200
*Erichsen (Sheet Metal Testing Machine)
 For Cupping Test, Deep-Drawing Cup Test
 200 KN Capacity*



SHP-600
*XRF Mounting Machine
 PC Control Mechanical Model
 600 kN Capacity*



SST-10
*Spring Testing Machine
 Pneumatic - Full Automatic
 10 kN Capacity*



SWT-30
*Wind Tunnel
 Computrized, 40x40 cm Test Section,
 30m/Sec*



STC-100
*Thermal Conductivity Unit
 Computerized for insulation materials*



SLS-500
*Digital Linear Speed
 Measuring instrument*



SVT-500
*Vacuum Testing Machine
 Digital-automatic operation
 500 mm Hg Capacity*



SDL-16
*Signal Conditioner & Data Logger
 16 Chanel - Analoge*



SMD-200B
Rubber Rheometer MDR
Rotorless Sealed Type

Rheometer-Series

Rubber Rheometer



SRT-200B



SMD-200B



SMV-200



SRPA-200

Model	Capacity	Temperatures	System user	Vertical force measurement	Oscillation frequency	Standard
SRT-200B	200 dN.m	200 °C	Fully Computer	--	1.66 ± 0.05 Hz	ASTM D 2084, ISO 3417
SMD-200B	200 dN.m	200 °C	Fully Computer	--	1.66 ± 0.05 Hz	ASTM D 5289 ISO 6502
SMD-200C	200 dN.m	200 °C	Fully Computer	✓	1.66 ± 0.05 Hz	ASTM D 5289 ISO 6502
SRPA-200	200 dN.m	230 °C	Fully Computer	✓	0-30 Hz	ASTM D6204 & D5289 , ISO-6502
SMV-200	200 MU	200°C	Fully Computer	✓	Rotor RPM 2±0.02	ASTM D1646 , ISO 289 , DIN 53525



SMF-350
Melt Flow Index
Procedure A ,B ,C , two zones -automatic

SMF-350

Melt Flow Index
Procedure A ,B ,C , two zones -automatic



SMF-300



SMF-300B



SHV-303



SAHV-300

Model	Number of controllers	Operating temperature	System user	Loading system	Standard	Description
SMF-300	1 Zones	350 °C	Digital Display	Dead Weight	ASTM D 1238 (Procedure A) ISO 1133	Automatic Cutter
SMF-300B	2 Zones	350 °C	Digital Display	Dead Weight		Automatic Cutter
SMF-350	2 Zones	350 °C	Touch Screen	Servo Electrical Equipped with load cell	ASTM D3364 & D1238 (Procedure A , B , C) ISO 1133	Fully automatic performance
SHV-303	3 Cells	300 °C	Digital Display	Dead Weight	ISIRI 6982 & 6845 ASTM D1525 & D648 ISO 306 & 2507 & 75	Dial Gauge
SAHV-300	3 Cells	300 °C	Touch Screen	Dead Weight		Digital Gauge



SPH-500
Hot Press
500 kN, 300°C, Automatic,
for plastic

SPH-Series

Hot Press
(For Preparation of Polymer Sheets)



SPH-20



SPN-10

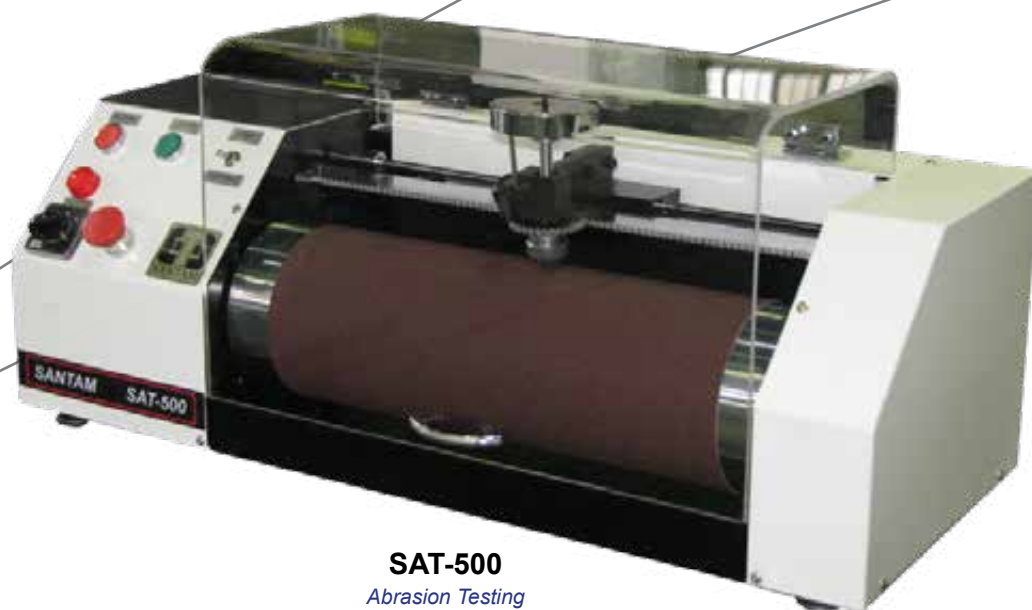


SPH-300



SPH-500B

Model	Capacity	Hot plate	Operating temperature	System user	Loading system	Application
SPM-7	100 kg	--	--	--	Manual	Suitable for Elastomers & Ductile Plastics Specimens Preparation
SPN-10	1000 kg	--	--	--	Pneumatic - Manual	
SPH-20	2000 kg	--	--	--	Hydraulic - Manual	
SPH-300	30 Ton	✓	300 °C	Digital Display	Hydraulic - Manual	Suitable for preparing rubber and plastic sheets
SPH-500	50 Ton	✓	300 °C	Touch Screen	Hydraulic - Automatic	Suitable for preparing plastic sheets
SPH-500B	50 Ton	✓	300 °C	Touch Screen	Hydraulic - Automatic	Suitable for preparing rubber sheets



SAT-500
Abrasion Testing
 Automatic, adjustable abrasion length,
 for rubber

other Special Machines Designed by SANTAM



SCF-300
Fatigue Test (Crank Mechanism)
 For Rubber



SRT-5B
Resilience Testing Machine
 Magnetic Pendulum Release, For rubber



SAT-500
Abrasion Testing
 Automatic, adjustable abrasion length,
 for rubber



SPM-7
Punch Press
 Manual
 1.5kN Capacity



MV-03B
For Rubber
ASTM-D624 Die B

MV-Series

Die For Punching Specimen



MV-01

For Rubber
ASTMD 412 DIE C,
D638 Type E IV



MV-02

For Plastic
ASTM D638 TYPE



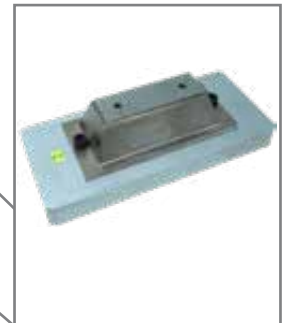
MV-03

For Rubber
ASTM D 624 DIE C



MV-05

For Resilience
DIN 53512 , ISO 4662 ,
ASTM-D1203 , D1054



MV-08

For Rubber
ASTM D570



MV-14

For Plastic
JIS 6767, K6400, K6259 ,
K6251 , K6301



MV-15

For Rubber
DIN 53504, Type S1



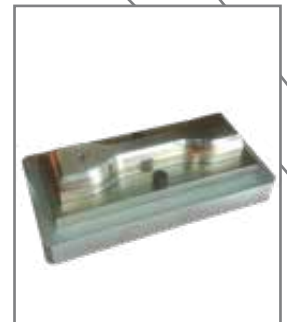
MV-18

For Plastic
ASTM D638 Type V



MV-19

For Plastic
ISO-527 Type 1A



MV-21

For Rubber
KES B-L006



MV-22

For Fom
D411050



MV-23

For Plastic
D411050



CFM-100

Die For Punching Specimen
(For Foam)
D 451195



CS-MB

Compression set
(For Rubber)
ASTMD D1229, D 395



MT-01

Die For Punching Specimen
(For PVC) Isiri 5525-1
IEC 6081-1-1



SSB-30
Strength of Materials Testing
Equipment
Suspension Bridge

Theory of Machine Teaching Equipment



SFT-600
Strength of Materials Testing Equipment
Rotating Fatigue
6000 RPM



SFT-850
Fatigue Testing Machine
Rotational Fatigue - 4 Points
6000 RPM



STS-50
Torsion Test, Manual Operation,
50N.m Capacity



SCT-5
Creep Test, for Plastics Specimens



STA-5
Elastic Torsion Test
50 N/m Capacity



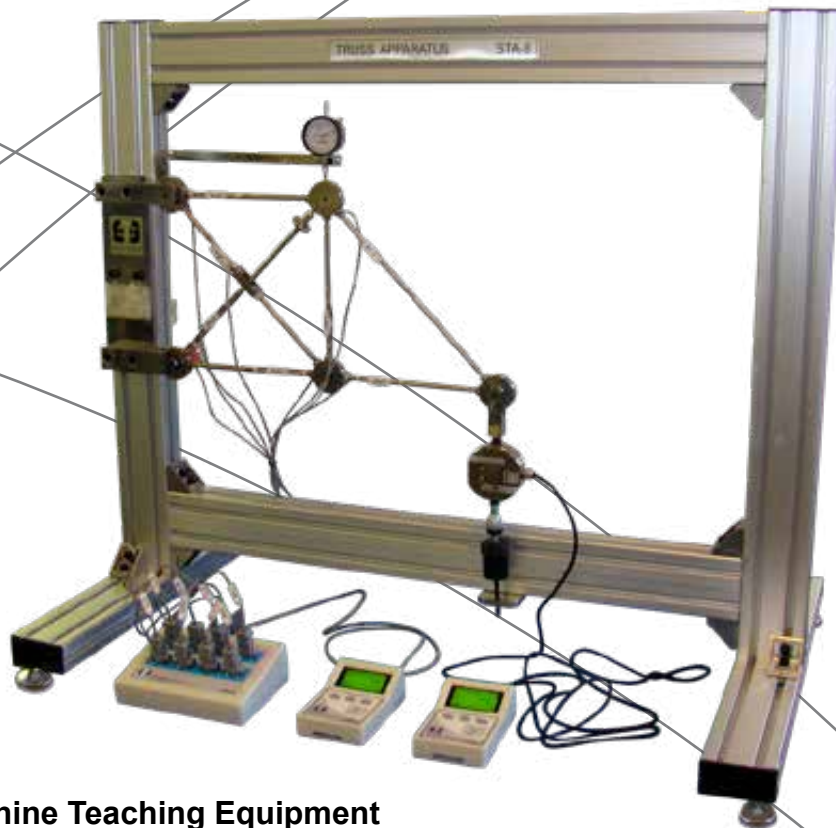
SDB-30
Deflection of Curved Beams



SBA-140
Buckling Test, Digital Load Read Out



SDB-20
Deflection of Unsymmetrical Beams



STA-8
Strength of Materials Testing
Equipment
Truss
1000 N Capacity

Theory of Machine Teaching Equipment



STI-50

Digital Transducer Indicator
STI Series



STC-8

Thin Cylinder



STC-12

Thin Cylinder



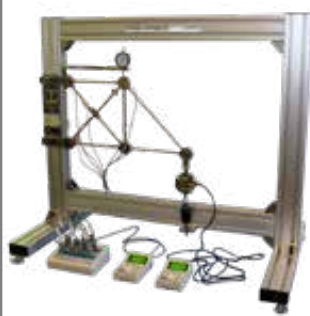
SDL-16

Signal Conditioner & Data Logger
16 Channel - Analogue



SDB-50

Deflection of Beams, Digital
Loads Measurement



STA-8

Truss
1000 N Capacity



SST-20

Strain Gauge Trainer



SDF-30

Bending of Primes

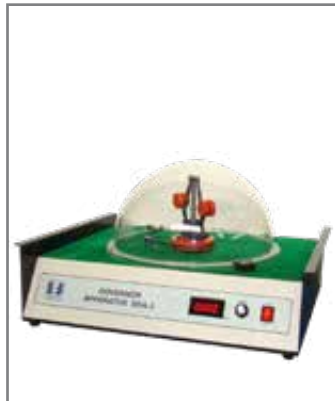


SGA-60
Theory of Machine Teaching
Equipment
Gyroscope

Theory of Machine Teaching Equipment



SCF-350
Centrifugal Force



SGA-3
Governor



SBA-3
Balancing



SGA-60
Gyroscope



SWA-160
Whirling of Shafts



SCA-3
Cams



SVT-10B

*Theory of Machine Testing Equipment
Forced & natural vibration of beams
with viscous damper*

Theory of Machine Teaching Equipment



SGA-6

Spur gear



SGA-10

Planetary gear



SJB-10

Journal bearing



SVT-10D

Free vibration with damping



SDT-4

4 Stroke Petrol Engine Testing



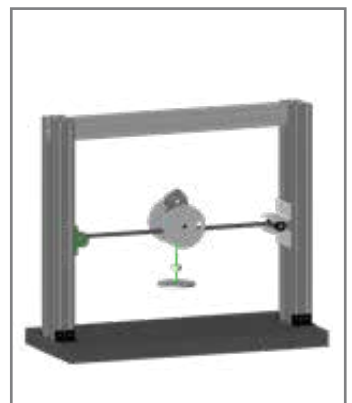
SVT-300

Torsional vibration



SVT-10B

*Forced & natural vibration of beams
with viscous damper*



SVT-10BD

*Forced vibration of beams with
harmonic damper*

■ تجربه ارائه تجهیزات در به بیش از ۲۵ صنعت و حوزه مختلف

صنعت فولادی

نورد مقاطع
صنایع مفتولی
ذوب و ریختگری سایر..
سنگ آهن و فراورده های معدنی
فولاد آلیاژی
شمش و ورق فولادی
لوله و پروفیل و مخازن
پیچ و مهره
میخ و پرچ
فنر ساز ها
شیر آلات صنعتی و اتصالات
دکل ، سازه و مجموعه سازه ها
سیم بکسل و پسی وایر پیش تنیده بید وایر
الکتروود و سیم جوش
قفل و زنجیر و طناب فولادی
قطعه ساز های فولادی

فلزات غیر آهنی

صنایع مس
صنایع آلومینیوم
نورد مقاطع
ذوب و ریختگری
قطعه ساز ها

صنعت برق

سیم و کابل های مخابراتی و فشار ضعیف
سیم و کابل های فشار متوسط
سیم و کابل های فشار قوی
خود نگهدارنده
یراق آلات برق
کابل های خودرویی
مقره سازها
ترانس و تابلو برق

صنعت خودرو و نقلیه

قطعات فلزی موتوری
قطعات پلیمری موتور
قطعات تزئینی
فوم و عایق و سندلی
تایر و تویوب و رینگ
قطعه سازان فلزی بدنه و شاسی
قطعات جلو بندی و انتقال نیرو
سیستم برق و الکترونیک

سیستم ترمز و کلاج
فنر و کمک فنر دمپر
تسمه ، کمربند ایمنی
شمع
رینگ ، پیچ و مهره
قفل و یراق آلات

مجموعه سازان

قطعات آسانسور
ماشین آلات صنعتی
تجهیزات نفت گاز و پتروشیمی
صنایع هوایی
صنایع دریایی

صنعت ساختمان

تیرچه و خرپا
آزمایشگاه های آکرو دینه و نظام مهندسی
پیمان کاران عمرانی و انبوه سازان
فوم های سقفی ، ساندویچ پانل و دیواری 3D
کاشی و سرامیک ، گچ
درب و پنجره ساز های UPVC
بتن و سیمان
قفل و یراق آلات

صنعت پلاستیک

گرانول سازها و رزین
ورق پلاستیکی
ظروف پلاستیکی
لوازم خانگی
قطعه سازها
فیلم پلیمری
نخ، الیاف و طناب پلیمری
لوله های پلیمری

صنعت لاستیک

تایر
اورینگ
دمپر و لرزه گیر ها
دستکش و لاتکس
نوار
ژئوسنتتیک (واتر استاپ ، ژئوتکستال و ژئوگرید)
قطعه ساز
لوله و شیلنگ
کفش و دمپایی

صنعت پلیمر های تقویت شده و کامپوزیت

لوله و مخازن کامپوزیتی
قطعه ساز
لوله ساز های GRP
ورق سازها
الیاف کربن و الیاف شیشه
فایبرگلاس

چوب و فراورده های چوبی

چوب و فراورده های چوبی
چوب پلاست
کاغذ و مقوا
کارتن
محصولات سلولوزی (دستمال کاغذی ..)

فوم و عایق

فوم های ساختمانی (سلب)
فوم های فلگسیل (ارتجاعی)
عایق ها
ایزوگام
پشم شیشه و پشم سنگ

پارچه و نخ

پارچه پلیمری
پارچه های نخی و کتفی
طناب و تسمه های پارچه ای
موکت و نمد
نخ و الیاف

تجهیزات پزشکی

دندان پزشکی
تجهیزات ارتوپدی
دارو سازها
بسته بندی
تجهیزات مصرفی بهداشتی
آزمایشگاه های بهداشت و درمان

دیگر مراکز مختلف

انواع چسپ مایع و رزین و افزودنی ها
تولید کننده چک
سیمان
سفال
لوله سیمانی
آسفالت
صنایع شیمیایی و رنگ (سنتزی و کاتالیزور
محصولات گرافیتی و کک
نسوز ها
کاتالیست و جاذب

مراکز و ادارات مختلف

ادارات استاندارد
آزمایشگاه های خدمات تست همکار اداره استاندارد
پژوهشکده ها
نظام مهندسی و مرکز تحقیقات مسکن
آزمایشگاه های مکانیک خاک وزارت راه
آزمایشگاه های شهرداری ها
شرکت های عمرانی
مراکز گاز استان ها
پتروشیمی ها

دانشگاه های دولتی و آزاد

دانشکده مکانیک
دانشکده های عمران
دانشکده های پلیمر و شیمی
دانشکده مواد
دانشکده هوا فضا
دانشکده خودرو
دانشکده راه آهن
دانشکده مهندسی پزشکی
دانشکده مهندسی دریا و نفت
دانشکده کشاورزی
دانشکده دندان پزشکی و غذا دارو
دانشکده معماری
دانشکده های چوب و منابع طبیعی
هنرستان های فنی حرفه ای
وزارت کار
مراکز آموزشی

صنعت ریلی

تست مجموعه ریل
تراوارس و شولدر بتنی
بالاست
مجموعه پایند
تست مجوعه مونتاژی ریل و تراوارس و قطعات
تست قطعات واگن (شاسی ، بدنه ..)
تست بوژی
تست قطعات محرک (چرخ ، لنت ، فنرها ، دمپر ، قاب بوژی ..)



2000 kN Servo Electro-mechanical UTM



Non-Contact Electromechanical Extensometer



Designing & Manufacturing of
Materials Testing Equipment

ISO 9001 - 2015



MADE IN IRAN

Agent

All of the specifications shown in this brochurs are subject to change without notice.

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