

AHP

PLASTİK MAKİNA

AHP PLASTİK MAKİNA

SAN VE TİC LTD ŞTİ

Test System for Plastics
Raw Material and Finished Products

General Catalog 2021



AHP PLASTİK MAKİNA



Our customers :

- | | |
|-----------------|---------------|
| 1- Spain | 11- Libya |
| 2- Slovenia | 12- India |
| 3- Greece | 13- Iran |
| 4- Germany | 14- Indonesia |
| 5- Saudi Arabia | 15- Egypt |
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| 9- Algeria | 19- Ukrain |
| 10- Nigeria | 20- Jordan |



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<https://www.linkedin.com/in/ahp-plastik-makina-2b982317a/>



<https://www.directindustry.com/prod/ahp-plastik-makina-236247.html>



<https://www.europages.co.uk/AHP-PLASTIK-MAKINA/00000005421538-758496001/products.html>



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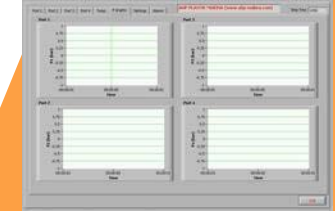
Hydrostatic Pressure Tester

According to ISO 1167, ASTM D1598 , ASTM D1599

Specifications

Pressure range up to	bar	100
Integrated high-pressure pump		●
Pump capacity	l/min	11
Stainless steel pressure reservoir		●
Number of stations		4
Pressure regulation via microprocessor controller		●
SensLine connection		●
10-bar pressure transducer		○
16-bar pressure transducer		○
25-bar pressure transducer		○
40-bar pressure transducer		○
60-bar pressure transducer		○
100-bar pressure transducer		●
Accuracy class for pressure transducer	0.50% of full scale of pressure transducer	
External control unit (PC)		●
Data interface to internal programs	USB	
Width	mm	600
Depth	mm	600
Height	mm	1700
Weight	kg	22
Voltage data		230/400 V, 50/60 Hz

● Included ○ available/optional



- +19 inch display
- 2,4,6,8,channel pressure up to 100 bars
- One temp input, Windows based software
- Database for data saving in case of power cut-off
- Pressure increase rate control
- European valves and sensors
- High pressure accumulators
- Glass door, Delta PLC based
- European piston pump brand, High pressure steel needle valves
- Training video

Hot Water Bath

According to ISO 116, ASTM D 1598, ASTM D 1598

Specifications

		> 1	> 2	> 3
Water depth	mm	1000	1500	1500
Width (internal)	mm	900	1200	1500
Length (internal)	mm	1200	1500	1500
Width (external)	mm	1000	1300	1600
Length (external)	mm	1600	2100	2100
Height closed (external)	mm	1300	1800	1800
Height open (external)	mm	2200	3000	3300
Number of manifold slots		on request		
Number of suspension rails (included)		2	2	2
Heating power	kW	6	6	9
Water temperature adjustable increments°C1				
Temperature constancy	°C		2	
Circulation system			•	
Connection and interface for chiller			•	
Over temperature shutdown			•	
Pneumatic door			•	

• Included ○ available/optional



- Up to 95C, European water circulation pump
- All parts coming into contact with water stainless
- Water temperature (with chiller):20-95
- Pneumatic Door
- Voltage data : 380 V-3Ph, 50/60 Hz
- Water temperature : RT -95°C
- Inner tank material:SS304
- Digital Temperature Controller
- SS304 inside chamber
- Training video

MFI(Melt Flow Index Tester)

According to ISO 1133, ASTM 1238

Specifications

Test temperature°C	300 to 600 in increments of 0.1 K	
Increase in the temperature range up to 450 °C	●	
Temperature regulating accuracy	1 K at the nozzle	
0.325-kg load weight	○	
1.200-kg load weight	○	
2.160-kg load weight	●	
3.800-kg load weight	○	
5.000-kg load weight	●	
10.000-kg load weight	○	
11.600-kg load weight	○	
Automatic cutting device	●	
Thermal Printer	●	
Permissible ambient temperature °C	+5 to +30	
Permissible relative humidity	Max. 70%, non-condensing	
Width mm	250	
Depth mm	510	
Height mm	350	
Weight (without weight discs) kg	20	

● Included ○ available/optional

- Fast heating speed
- Two heating zone & 2 thermocouple
- Barrel cleaning tool
- High precision of constant temperature
- Highly polished and hardened barrel
- Compression tool
- SS304 tray
- Barrel filling funnel
- Plexi-glass cover
- Touch display
- Go-no-Go gage
- Die transfer tool
- Upper and down side insulation of the cylinder
- Can use manual and automatic material cutting
- Stepper motor controlled automatic cutter
- USB data out for flash memory
- Separate calibration parameters for up and down side of the barrel
- Barrel Inner hole $9.55\pm 0.025\text{mm}$
- Die hole $1=2.095\pm 0.005\text{mm}$
- PID parameters can be automatically set
- Precision up to ± 0.1 degree centigrade
- Display Resolution 0.1°C
- Weight accuracy $\pm 0.5\%$
- Training video



Carbon Content Test

According to ISO 6964

Specifications

Furnace temperature range	°C	0 – 900
Furnace accuracy		1 K
Flow meter		8-80 ml/min
Power	kW	1
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity		Max. 70%
Width	mm	370
Depth	mm	260
Height	mm	380
Weight	kg	33
Voltage		230 V, 50/60 Hz

● Included ○ available/optional



- Chemical materials
- Desiccator and silica gel pellets included
- Glass trap
- Special sample movement rail system
- U pipes, Silica gel
- Sample boat alumina
- Double sliding quartz glass
- Quarts glass end caps
- Silicone hoses included
- N2 rotameter
- PID digital temperature controller an digital timer
- Highly insulated furnace and able to do 900C tests
- Pyrogalol pellets and distilled water
- Power 220V-50Hz
- Training video



DSC-OIT(Oxidation Induction Time)

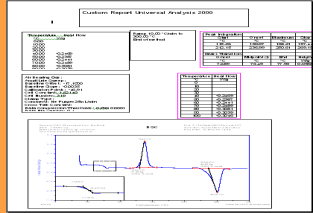
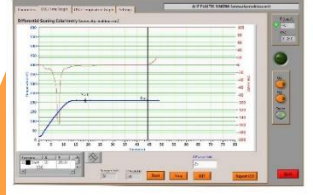
According to ISO 11357-6, ISO 10837, EN 728

Specifications

Temperature range when cooling with compressed air	°C	RT* to +300
Sensor with high resolution		●
Software-controlled switching valves for two gases		●
Integrated mass flow controller for two gases		○
Calibration kit		●
Sensitivity	mV/mW	3,6 to 4,0
Gas flow	ml/minute	(0) to 5 to 250
Heating rate	K/minute	0.001 to 500
Temperature accuracy	K	0.1
Operation via PC		●
PC including software		●
Permissible environmental temperature	°C	20 ± 5
Permissible relative humidity	%	60 ± 20
Dimensions of measuring device (width, x depth x height)	mm	300 x 500 x 180
Weight of the measuring device	kg	21
Voltage data		230 V, 50 Hz
* RT = room temperature		

● Included ○ available/optional

- Including standard Tin
- RS485-usb convert
- Heating rate up to 50C/min
- Automatic cycle control
- Data output for universal analyzer software like TA from USA
- Ind pellets for calibration checkout
- 100pcs of aluminum pans
- Making report templates as operator settings
- High sensitivity
- Calibration software
- Data processing
- DSC-Temp-Time data saving, Software CD
- Manual
- Capable of measuring OIT-DSC
- Temperature accuracy 0.1C
- Usable for OIT measurement and melting point
- N2 and O2 glass rotameter
- Power 220V-50Hz
- Training video



Stainless Steel end cap

DESCRIPTION

SS304 end cap for polymer pipes hydrostatic pressure testing. there are two type, first is 3pcs cap second is 4 pcs cap. In 3 pcs end caps for bigger sizes than 63mm you need hydraulic device for mounting caps on pipes. 4pcs end caps are easy mount caps that operator easily can mount caps without excess force application.

SIZES

16mm-20mm-25mm-32mm-40mm-50mm-
63mm-75mm-110mm-125mm-160mm-
200mm-225mm-250mm-
315mm-355mm-400mm-450mm-500mm-
630mm



Universal Tensile Tester

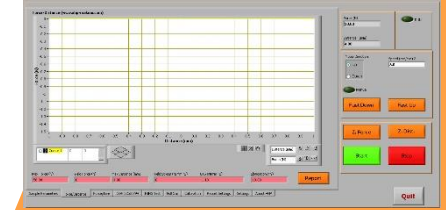
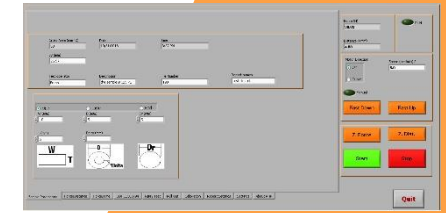
According to ISO 527, ISO 6259

Specifications

		2Tons	5Tons
Test force	kN	5	10
Structure			
Extensometer		○	
Wedge grips		○	
Grips for large wall thickness		○	
Peel test fixture for composite pipes		○	
Compression plates		○	
Permissible ambient temperature	°C	-10 to +40	
Permissible relative humidity		10-90%	
Width	mm	1300	1300
Depth	mm	1100	1100
Height	mm	1800	1800
Weight	kg	270	300

● Included ○ available/optional

- Capacity maximum 20-50-100...KN
- Load resolution 1/10000
- Strength accuracy ≤0.001%
- Displacement resolution 1/1000
- Displacement accuracy ≤0.5%
- Speed range 0.01-300mm/min
- Cross head travel 1000mm (without grips)
- German ball screws, PLC controlled
- Tensile grips for type 1 and 2 according to ISO 6259
- elongation at break and all other tensile and compression parameters by software
- Calculation of yield, UT
- Overload protection
- Travel limit switches
- Manual high speed up and down detachable hand key
- Distance between two columns 350mm
- Power consumption about 2000W
- Windows based software
- Long travel extensometer included
- Type 1&2 cutters for samples according to ISO 6259
- Power 220V-50Hz
- Training video



Tensile Strength Tester with Video Extensometer

According to ISO 18488

Specifications

		2Tons	5Tons
Test force	kN	5	10
Structure			
Extensometer		○	
Wedge grips		○	
Grips for large wall thickness		○	
Peel test fixture for composite pipes		○	
Compression plates		○	
Permissible ambient temperature	°C	-10 to +40	
Permissible relative humidity		10-90%	
Width	mm	1300	1300
Depth	mm	1100	1100
Height	mm	1800	1800
Weight	kg	270	300

● Included ○ available/optional

- Two column tensile tester
- Hot air cabin
- Video extensometer
- Computer controlled
- USB port for computer
- Software included
- Ball screw
- Timing belt force transmission
- 100kgf load cell, 10KN force capacity
- Software functions for calculation of strain hardening modulus
- Training video



Compression Test Machine for Pallets

According to the ISO 8611

Specifications

Test type	compression
Operating mode	computer-controlled
Test material	for plastics
Sector	industrial
Technology	mechanical, pallet
Configuration	vertical

● Included ○ available/optional



- Pallets for materials handling Flat pallets.
- This shows that some pallets are too heavily loaded in reality which could occur damage in the logistic chain.
- On the other hand, sometimes too strong pallets are delivered.
- Less material could then be used, which can yield a profit on large quantities.
- It includes two types of 2 column and 4 column compression machine
- Computer controlled
- Windows based software
- Report in MS EXCEL
- Portable displacement measurement device
- In different capacities of 50KN-10KN-15KN
- Hard chrome guide shafts
- USB data out
- Servomotor controlled
- Pressure plates according to customer request
- Training video

Compression Test Machine

According to the ISO 8611

Specifications

Force Capacity	KN	300
Load resolution		1/10000
No. of displacement 100mm sensors		5
No. of ball screws		2
No. of guide columns		4
Power consumption	KW	3
Test speed	mm/min	12.7
Square plate fixtures	mm	ISO8611
Block compression fixtures (2pcs)	mm	ISO8611
Stacking fixtures (4pcs)	mm	ISO8611
Forklift plates (5pcs)	mm	ISO8611
Pressure plate	mm	1300*1500*100
Bed size	mm	2000*2500*640
Column size	mm	*****
Computer		0

● Included ○ available/optional



- Testing of Pallets for materials handling Flat pallets
- This shows that some pallets are too heavily loaded in reality which could occur damage in the logistic chain
- Less material could then be used, which can yield a profit on large quantities
- It includes two types of 2 column and 4 column compression machine
- Computer controlled
- Windows based software
- Report in MS EXCEL
- Portable displacement measurement device
- In different capacities of 50KN-10KN-15KN-300KN
- Hard chrome guide shafts
- USB data out
- Servomotor controlled
- Pressure plates according to customer request
- Training video

CNC Milling for Tensile

According to ISO 6259

Specifications

Replaceable milling table		○
Milling table with mechanical clamping device		●
Max thickness of samples		Max. thickness 40 mm
Number of test bars		Max. 1
Rotational speed of spindle		Between 3000 and 18000 per minute
Hard metal milling cutter Ø 10 mm		●
Diamond milling cutter		○
Milling program		MACH3
Operation via PC		●
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity		Max. 70%
X Axis travel	mm	300
Y Axis travel	mm	400
Z Axis travel	mm	90
Width	mm	300
Depth	mm	400
Height	mm	900
Weight	kg	80

● Included ○ available/optional



- Windows Based Software
- Control via Parallel Port(3 axis standard controller)
- for Type 1&2 according to ISO6259
- German plastic milling tool
- 3 axis CNC controller, ball screw
- Turkish 24000r/min spindle,
- Windows based software
- Computer (as option)
- Aluminum T-slot table
- Cabin door with glass
- Cabin light
- Readymade G-codes for sample milling
- Capable of cutting any shapes,
- Power 220V-50Hz
- Training video



Manual Punching Machine

Specifications

Force Capacity	KN	100
Distance between shafts	mm	200

- Hard chrome plated shafts
- Steel cutter 18 degrees angle
- Heat treated cutters
- Cutters as customer request
- Spring reversion for moving plate



Tensile Creep Tester in Fluid According to ISO 16770

Specifications

No. of stations		6
Force capacity	KN	10
Display		10" Touch
Load cell		as per customer request
Temperature range	C	40...95
Bath Volume	l	30



- Force measurement using load cell
- Force adjustment using lever mechanism
- Temperature control accuracy ± 0.5 , Test force 25-270N
- Load accuracy $\pm 1\%$, Load resolution 0.1N, Max sample elongation 10mm
- SS304 Tank
- Widows based software
- Data display and logging, Report in MS office
- Exterior body powder coat paint
- All touching parts with fluid are SS304
- Milling cutter as standard
- Training video



Falling Weight Impact Tester

According to EN744,EN1411,ISO3127

Specifications

		V1	V2
Max. drop height	m	2	2
Max. sample diameter	mm	710	1600
Max. impact frequency per minute (dependent on operator)		25	25
Accuracy of height adjustment	mm	±10	
Drop weights	kg	Max. 16	
Nose design	Depending on the applicable standards		
Lowest drop height without double impact	m	Typically 0.5 (dependent on sample)	
Operation/visualization	5" Touch display		
Permissible ambient temperature	°C	+5 to +30	
Permissible relative humidity	Max. 70%, non-condensing		
Width of tester	mm	900	2000
Depth of tester	mm	800	800
Height of tester	mm	3900	5000
Width of control cabinet	mm	600	
Depth of control cabinet	mm	400	
Height of control cabinet	mm	1000	
Voltage data	230/400 V, 50/60 Hz		

● Included ○ available/optional

- Falling Weight Impact Tester
- According to EN744,EN1411,ISO3127
- Max drop height 2000mm
- Max sample diameter 500mm
- Accuracy of height adjustment 1mm
- Number of drop weights 5
- Nose design D50
- Display 5" touch HMI
- Manual sample table height adjustment
- Pneumatic anti rebound system
- Magnet weight holder
- Digital display of height and number of impacts
- Easy calibration of height display
- Manual turning of sample
- PLC based control system
- Training video



Falling Weight Impact Tester for PVC Duct Pipes

Specifications

● Included ○ available/optional



Falling Weight impact UPVC Tester

According to...

Specifications

● Included ○ available/optional

➤ [Training video](#)



Falling Dart Impact Tester

According to ASTM D1598 type A, ASTM D1709 type A7

Specifications	FDI-03
Test Method	Method A or Method B is optional
Test Range	Method A: 50 ~2000 g (weights on request) Method B: 300 ~2000 g (weights on request)
Accuracy	0.1 g (0.1J)
Specimen Clamp	Pneumatic Clamp
Gas Supply Pressure	0.6 MPa (outside of supply scope)
Port Size	Φ6 mm
Specimen Size	>150 mm x150 mm
Power Supply	220VAC 50Hz / 120VAC 60Hz
Net Weight	70 kg
Instrument Dimension	Method A: 500 mm (L) x 450 mm (W) x1320 mm (H) Method B: 500 mm (L) x 450 mm (W) x2160 mm (H)
Standard Configurations	Method A Accessories, Touch Screen and Micro Printer Method B Accessories
Note	The air supply port of this instrument is Φ6 mm ; Customers will need to prepare for compressed air supply.
	● Included ○ available/optional

- touch display
- USB data output Thermal printer include
- Pneumatic sample grip
- Pneumatic dart holder
- 6mm-6bar compressed air input
- 66 Cm falling height
- Training video



Pendulum Impact Tester

According to ISO 189, ISO 179

Specifications

Energy	J	5.5J, 11J, 22J (Izod Testing) 7.5J, 15J, 25J, 50J (Charpy Testing)
Span of charpy	mm	62
Izod testing Impact Speed	m/s	3.5
Radius of striking edge	mm	0.8 ± 0.2
Location of striking edge above top surface of sup		22 ± 0.05
Notch A	45°±1°	Radius of the notch bottom R=0.25±0.05mm
Notch B	45°±1°	Radius of the notch bottom R=0.25±0.05mm
Charpy testing Impact Speed	m/s	3.8
Radius of striking edge	mm	2 ± 0.5
Angle of striking edge		30°± 1°
Notch A	45°±1°	Radius of the notch bottom R=0.25±0.05mm
Notch B	45°±1°	Radius of the notch bottom R=1 ±0.05mm
Notch C	45°±1°	Radius of the notch bottom R=0.10±0.20mm
Gross Weight	kg	100
Voltage data		600

● Included ○ available/optional

- Direct measurement of impact energy
- Calibration function for different pendulums
- Low friction ball bearings used
- 4 inch touch display
- Angle resolution 0.01
- Display of pendulum angle any time
- 15 joules IZOD hammer
- IZOD test fixture
- Windows based software for printout
- PC cover for operator safety
- Power 220V-50Hz, Training video
- Training video



Carbon Black Dispersion Tester

According to ISO 18553

Specifications

Microscope

Phototube Binocular 30°/23 (50:50)

Coarse drive 2 mm/revolution

Fine drive 0.2 mm/revolution

Lifting range Max. 25 mm

Height stop Mechanically adjustable

Object lenses Multiple nosepiece

5 x 0.12

10 x 0.25

20 x 0.45

Eye pieces 10X, 16X

Light source Halogen lamp

Digital camera incl. software

Max. resolution 1280 x 1024 pixels

Image refresh rate Max. 25 images/s

Exposure time 9 μs – 17209 m/s

Digital interface USB 2.0 (incl. USB cable)

PC ●

Permissible ambient temperature +5 to +30

Permissible relative humidity Max. 70%, non-condensing

Width mm 300

Depth mm 721

Height mm 505

● Included ○ available/optional



- Calibration glass slide
- One pack of slide
- CCD
- Microscope
- Stand With manual stage focusing
- Clips
- Software
- Manual
- Noted : for using Microtome or Oven is needed
- Weight Approx. 20
- Training video

Microtome for dispersion test

According to...

Specifications

● Included ○ available/optional



- Sample thickness: 1-25 micron
- Sample dimension: 35*25mm
- Horizontal move: 35mm-vertical move: 46mm
- Machine dimension: 335*350*300mm
- Weight: about 28kg
- Microscope: 4 object piece
- 2 eye piece (magnification is up to X1600)
- Training video

Analytical Balance + Density Kit

Specifications

		HR200
Weighing capacity	g	200,210,220
Readability	mg	0.1
Repeatability (standard deviation)	±mg	0.1
Linearity deviation	±mg	0.2
Typical response time	s	2
Pan size diameter	mm	85
Height of the weighing chamber	mm	209
Net weight, approx.	mm	5.7
Dimensions, D x W x H	mm	213(W)x319(D)x301(H)
CE-conformity	●	
Draft shield for analytical balance	-Analytical draft shield chamber - Interior chamber with spill -proof design -All panes can be exchanged	
Housing	Chemically resistant housing	
Weigh cell	- Mounted on a heavy-duty die-cast plate -Stable and repeatable weighing results	
In-use cover	Integrated	
Built-in application programs	Special lab applications such as Mixing, Components Conversion, Weighing, Density, Percentage, Peak Hold, Counting and Unstable Conditions	
Voltage data	100-240 V, -15%/+10%, 50-60 Hz, 0,2A	
Relative humidity	Max. 70%, non-condensing	
Ambient temperature	°C	+ 10°C to +30 °C

● Included ○ available/optional



- 0.0001 gr (0.1mg)
- Training video

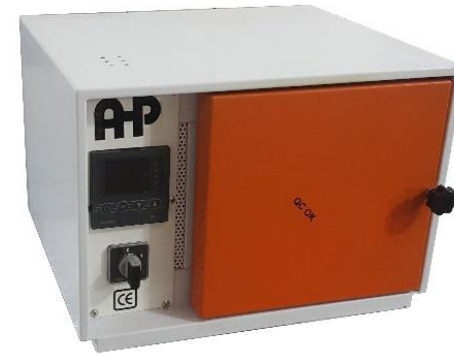
Ash Content Test Furnace 1200C

According to ISO 3451 Up to 1200C

Specifications

Max. operating temperature	°C	1200
Spatial temperature constancy	°C	±2
Temporal temperature constancy	°C	±1
Digital temperature display		○
Usable space	l	2.5
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity condensing		Max. 70%, non-
Width (external)	mm	600
Depth (external)	mm	500
Height (external)	mm	500
Weight	kg	50
Voltage data		230 V, 50 Hz

● Included ○ available/optional



- 2.5Lit capacity, PID Controller
- 2200 W heating resistance elements
- 10 pcs of ceramic crucibles
- Safety gloves,
- Desiccator 18 lit capacity and silica gel pellets
- Including ceramic sample crucible
- Crucible grips
- Digital temperature controller
- Power 220V-50Hz
- Training video

Bending Test Stand Combinational Tester

According EN 1277, EN 1035

Specifications

Pipe diameter	mm	200 to 1200
Material		Plastic
Shape		Shape Corrugated pipe
Pressure control		Automated
Pressure-measuring transducer	bar	-1.0 to +0.6
Control water	bar	0.5 + 0.05
Control air	bar	-0.3 ± 0.015
Pressure adjustment		pressure regulator

● Included ○ available/optional



- Computer controlled
- Windows based software
- Control unit separate from cabin
- Bending and squeezing device
- Special end plugs
- Training video

Vicat Testing According

According to ISO 306, ASTM D1525

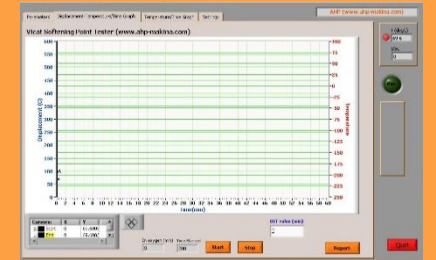
Specifications

Number of stations		2
Temperature range	°C	+20 to +200
Resolution	K	±0.1
Inductive distance measurement		○
Distance measurement accuracy	mm	0.01
Temperature gradient	K/h	50, 120
Variable HDT span	mm	64 or 110
Bath volume		Approx. 13
Heat transfer oil		○
Software		○
PC		○
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity		Max. 70%, non-condensing
Width	mm	580
Depth	mm	700
Height	mm	500
Weight	kg	78

● Included ○ available/optional



- pneumatic elevator
- 6mm air hose input
- Including 50N weight
- Two stations
- Digital temperature controller
- Digital display of displacement(accuracy 0.01 mm)
- Temperature increase rate 50C/min
- Temperature increase rate control via variable resistance
- Including circulation pump
- SS304 bath
- Alarming function in 1mm displacement of needle
- Steel needle cross section area 1mm² according to standard
- Temperature range from RT to 200C
- Temperature display resolution 0.1C
- Input power 220V AC single phase
- Korean controller, Japan temperature sensors
- Aluminium bath cover
- Including two station for Vicat softening point temperature determination
- Power 220V-50Hz
- Training video



Opacity Tester

Specifications

Light source	Parallel optical source	
Lux meter	24 bit luminous flux collection	
Diameter range of pipes	mm	20-63
Resolution	0.01 % FS	
Accuracy	<0.05% FS	
Display	13 mm LCD	
Lux range	Lux	0-2200
Lux display resolution	Lux	1
Operating temp.	C	0-50
Operating humidity	Max. 80% RH	
Zero adjust function	○	
Hold function	○	
Weight	kg	12
Voltage data	230 V, 50 Hz	

● Included ○ available/optional



- Light source Parallel optical source
- Lux meter 24 bit luminous flux collection
- Diameter range of pipes 20-63 mm
- Resolution 0.01 % FS
- Accuracy <0.05%
- FS
- Display 13 mm LCD
- OPACITY TESTER
- 3 inch Touch display
- USB port data output to flash disk
- Light reading resolution 0.1 Lux
- Max light 65536 Lux
- Sliding gripper for sample
- Training video

Oven-Hot Air Oven

Specifications

Max. operating temperature	°C	250
Spatial temperature constancy	°C	±1.5
Temporal temperature constancy	°C	±0.3
Digital temperature display		●
Usable space	l	55
Stainless steel cabin		●
Shelves		2
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity		Max. 70%, non-condensing
Width (internal)	mm	470
Depth (internal)	mm	310
Height (internal)	mm	440
Width (external)	mm	620
Depth (external)	mm	450
Height (external)	mm	730
Weight	kg	40

● Included ○ available/optional



- Forced air circulation
- Inside chamber SS304
- Digital timer included
- Training video

Humidity and Temperature Test Chamber

According to ISO 9852

Specifications

Temperature range	C	RT...250
Humidity range	%	Up to 90
Internal capacity	l	55
Internal dimension	cm	47*31*44

● Included ○ available/optional



- Inside chamber SS304
- Digital timer included
- Training video
- Humidity making method is ultrasonic

Volatile Content Test Set

According to EN12099, EN12099

Specifications

Max. operating temperature	°C	250
Spatial temperature constancy	°C	±1.5
Temporal temperature constancy	°C	±0.3
Digital temperature display		●
Usable space	l	55
Stainless steel cabin		●
Shelves		2
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity		Max. 70%, non-condensing
Width (internal)	mm	470
Depth (internal)	mm	310
Height (internal)	mm	440
Width (external)	mm	620
Depth (external)	mm	450
Height (external)	mm	730
Weight	kg	40

● Included ○ available/optional



- Digital PID temperature controller
- digital timer, air circulation fan
- steel chamber, Glass weighting cup 50ml
- Training video
- It also need 0.1 mg balance that need to be bough separately

Needle Depression Test

Accordance with ISO 21809-1

Specifications

Max. operating temperature	°C	250
Spatial temperature constancy	°C	±1.5
Temporal temperature constancy	°C	±0.3
Digital temperature display		●
Usable space	l	55
Stainless steel cabin		●
Shelves		2
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity		Max. 70%, non-condensing
Width (internal)	mm	470
Depth (internal)	mm	310
Height (internal)	mm	440
Width (external)	mm	620
Depth (external)	mm	450
Height (external)	mm	730
Weight	kg	40

● Included ○ available/optional



- PID temperature controller with an accuracy of 0.1 °C Japanese
- Has a digital timer
- Test sample fixture weighing 25 N
- Digital needle displacement display with 0.01 mm accuracy
- Single station
- Needle with a diameter of 1.8mm
- Training video

Methylene Chloride Tester

Specifications

Temperature range	°C	10 – 30
Regulating accuracy °C ±0.5		
Cooling	Integrated cooling unit	
Test fluid	Approx. 25 l, dichloromethane CH ₂ Cl ₂ * Density at 20 °C: 1.32-1.33 g/cm ³	
Height of medium level	mm	Approx. 100
Height of water layer	mm	Approx. 100
Controller	PID controller	
Permissible ambient temperature	°C	+5 to +35
Permissible relative humidity	Max. 70%, non-condensing	
Width (internal)	mm	480
Depth (internal)	mm	300
Height (internal)	mm	360
Width (external)	mm	610
Depth (external)	mm	540
Height (external)	mm	850
Weight	kg	80

● Included ○ available/optional



- Regulating accuracy 0.5C
- Integrated cooling unit
- Test fluid dichloromethane CH₂Cl₂,
- controller PID
- Internal medium chamber
- Direct medium chamber temperature measurement
- digital display of medium chamber temperature
- Air circulation for uniform temperature inside the chamber
- Training video

Gravimetric Automatic Weight/meter Control for Pipes

Specifications

Hopper Capacity		15
Display Size	"	16
Maximum Extruder Output	Kg/h	1500
Loadcel capacity	Kg	30
Weight resolution	g	1

● Included ○ available/optional



- Gravimetric W/m control system
- Haul-Off based
- PLC based
- Aluminum structure
- Graphical display of parameters
- Pneumatic door
- Air regulator
- Voltage and current analog output for puller
- Training video

Batch Dosing Mixer

Specifications		
Output	Kg/h	100/200/400/600/800
No. of Hoppers		Up to 8
Touch Display	"	7
● Included ○ available/optional		



- AHP batch dosing mixer includes vacuum loader, weight cup, mixing and output unit. it can consists of 2 up to 8 hoppers and can mix up to 8 granule materials from 1-100% dosage per each.
- Training video
- Pneumatic valves
- Single point load cell
- Mixing section included

Rapid Crack Propagation Tester (RCP-S4)

According to ISO 13477

Specifications

Pressure transducer	bar	25
Absolute measuring accuracy	0.5% of full scale of pressure transducer	
Operation via	Touch display 16"	
Display of filling pressure	At manometer (max. 25 bar)	
Display of test pressure	On Monitor	
Compressed air supply	40-bar compressed air supply unit min 750 l/min	
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity	Max. 70%, non-condensing	
Width of test unit	mm	790
Depth of test unit	mm	2050
Height of test unit	mm	2250
Weight of test unit	kg	345
Width of control panel	mm	600
Depth of control panel	mm	600
Height of control panel	mm	1200
Weight of control panel	kg	100

● Included ○ available/optional



- Freezing chamber top door open
- Digital Control for freezing chamber
- Including Sample 0°C freezer (60*60*220cm inside dimension)
- Base testing unit suitable for sample dimensions(mm): 32 – 250
- Includes anvil, striker blade, containment cage spacers and decompression baffles for 250mm-SDR11
- Includes one set of special end caps for 250mm pipe
- Regulation of filling pressure: Manually
- Regulation of test pressure: Automatic
- Operation panel can be used from distance regarding to base testing unit for safety reasons
- Machine needs external compressed air supply min 10 bars
- Trolley for sample placement in test unit
- Especial fixing of sample on the trolley
- Compressed external air supply: need to be prepared by customer
- Voltage data: 230V, 50/60 Hz
- Training video

Notch Milling for SCG Tester

According to ISO 13479

Specifications

Pipe outside diameter	mm	63–250 63–630
Max. pipe length	mm	2000
V milling head (standard parameters)		0
Diameter	mm	200
Number of teeth		20
Rotational speed of motor		703 rpm
Rapid longitudinal feed rate	mm/min	800
Slow longitudinal feed rate	mm/min	140
Cutting feed rate (standard value)		0.01 (mm/rev)/tooth
Face milling cutter for wall thicknesses >50 mm		0
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity		Max. 70%, non-condensing
Width	mm	2200
Depth	mm	1200
Height	mm	2100
Weight	kg	550

● Included ○ available/optional



- Notch length 50-500mm
- Wall thickness >5mm
- Rotational speed 703rpm(adjustable)
- Longitudinal feed rate 800mm/min(adjustable)
- Cutting feed rate 0.01 (mm/rev)/tooth according to the standard
- Digital notch depth indicator
- Digital notch length adjustment
- Feed speed adjustment
- 60degree HSS cutting tool
- Linear guides
- Pneumatic pipe holder
- Training video

Thermal Cycling Tester

According to EN 12293, ISO 10508

Specifications

No. of stations		3
Max pressure	bar	16
Cold tank volume	l	300
Hot water tank volume	l	300
Heating power	KW	9
Chiller		0



- The temperature cycling tester is designed to determine the resistance of thermoplastic pipe network and connections consisting of stiff or flexible parts to alternating thermal shock.
- This applies to pipe systems intended to be used for conveying hot and cold pressurized water sample carbon
- 3 pressure lines
- Hot and cold water tank
- Chiller
- Computer controlled
- Report in WORD
- Training video

Laboratory Chiller

Specifications

Flow	L/min	10-16
Pump power	KW	0.1/1/2
Refrigerant		R-134a
Voltage		220V

● Included ○ available/optional



- Training video
- Digital temperature controller
- Flow switch equipped
- Tank volume 6-100 L

Laboratory Roto-Molding Machine

According to ISO 13955

Specifications

Max. temperature	°C	350
Temperature constancy	°C	±2
Max rotational speed	rpm	50
Heating method elements	Resistance heating	
Chamber diameter	mm	600
Control type software	PLC and computer	
Mold type	Aluminum	
Cooling method	Air	
Carrier	Manual	
Heating power	W	2000
Total power	W	9000
Computer	O	
Computer Connection	USB	
Voltage data	230 V, 50 Hz	

● Included ○ available/optional

- Rotomold Maximum temperature 300C
- Max rotational speed 50rpm
- Temperature constancy in the chamber ±2C
- Heating method resistance element
- Control using PLC and computer
- Air cooling method
- Carrier movement manual
- Heating power 3000W
- Chamber diameter 600mm, Chamber length 540mm
- Including cubic mold dimension 180*180*180mm
- Protecting cover for cooling section
- Mold body from SS sheet (or aluminum based on customer request)
- Speed control of two rotation direction using software
- Multistep control of machine using software
- Step control of Temperature-Time-Speed up to 9 step
- Alarm function
- Reporting to MS office
- Graphing and saving data to PC
- Both manual and automatic control mode included in the software
- N2 gas control environment by software
- Vacuum pressure down to 10mm/Hg
- N2 and vacuum solenoid valves controllable in each step in automatic and manual mode
- Windows based software
- Training video



Crush Tester

According to ISO 13955

Specifications

Moving plate speed	mm/min	Adjustable (100+-10 mm/min)
Force mechanism		Hydraulic
Max press force	T	10
Force indicator		O
Stop mechanism		Standard spacers or sliding switch
Max pipe size	mm	225
Column shafts		Hard chrome plated
Hydraulic pack		Electrically controlled
Squeeze-off bars		●
Total power	w	2000
Column design		●
Weight	kg	400
Voltage data		230 V, 50 Hz
● Included ○ available/optional		



- Equipped with thermal printer (size 20-63mm)
- Complete control by HMI and Delta PLC.
- Ability to output test information as an Excel file on USB
- With Flash output to store test data up to 2000 samples
- Training video

Leak Tightness Under Bending

According to EN 921

Specifications

Test pressure	bar	Max. 100
Display of pressure		Manometer
Sample diameter	mm	32 to 80
Sample length		10 x outside diameter
Test temperature	°C	Ambient temperature
Splash protection		0
End closure and bending template for each pipe dimension		0
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity		Max. 70%, non-condensing
Width	mm	1500
Depth	mm	600
Height	mm	1600
Weight	kg	Approx. 200
Voltage data		230/400 V, 50 Hz

● Included ○ available/optional



- Used for leak test of mechanical fittings under bending
- The machine needs hydrostatic unit (not standard delivery)
- Test pressure can be set up to 100 bar
- Including manometer
- Test temperature ambient temp
- Protecting Plexiglas door
- Training video

Vacuum Testing device

According to ISO 3459

Specifications

Test pressure	bar	Max. -2 bars
Display of pressure		7" Touch
Sample diameter	mm	32 to 125
Sample length	mm	1000
Test temperature temperature	°C	Ambient
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity non-condensing		Max. 70%, non-
Width	mm	800
Depth	mm	600
Height	mm	1600
Weight	kg	Approx. 100
Voltage data		230/400 V, 50 Hz

● Included ○ available/optional



- Equipped with thermal printer (size 20-63mm)
- Complete control by HMI and Delta PLC.
- Ability to output test information as an Excel file on USB
- With Flash output to store test data up to 2000 samples
- Training video

Flammability Test Chamber UL 94

Specifications

No. of Digital Timers	pcs	3
Flowmeter Range	mL/min	250
Cabin Size	cm	62*55*86
Automatic timer start		0

● Included ○ available/optional



- Glass door equipped
- Flowmeter included
- 3 pcs of digital timers
- Vertical and horizontal mode of test
- Easy slide holders
- UL94 , IEC60695-11-2 , IEC60695-11-3 , IEC60695-11-4 , IEC60695-11-20 , ISO845

Gel Content Tester

According to ASTM D570

Specifications

Temperature Range	C	50-300
Control Method		Analog/Digital
Timer		0
Volume	CC	500

● Included ○ available/optional



- Chemicals will be supplied by customer
- Glassware included
- Holder base
- SS mesh 100pcs
- Training video

ESCR Tester

According to ASTM D1693

Specifications

Temperature range	°C	50 (method A/B), 100 (method C)
Temperature accuracy		±0.5
Temperature and control display		Digital
Max. number of test tubes		10
Max. number of samples in test tubes		10
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity		Max. 70%, non-condensing
Width	mm	770
Depth	mm	460
Height	mm	380
Weight	kg	35
Voltage data		230 V, 50 Hz

● Included ○ available/optional



- Sample holder
- Punch and die
- Notch device
- Bending clamp
- Sample transfer tool
- Notch making tool
- Sample tray
- Digital timer and alarm function included
- Test bath with digital PID temperature control
- Sample cutting press and cutter included
- Thermal insulation using elastomeric foams
- SS304 inner tank, External body power coated paint
- Liquid water or silicone oil
- 10 glass tubes and rubber plugs
- 100 (method C)
- Training video

Hydraulic Hot Press

Specifications

Temperature range	C	Up to 300
Plate size	mm	300*4400
Touch display	"	7
Hydraulic press force capacity	KN	100, 200, 300
● Included ○ available/optional		



- Water cooling system for molds
- Touch display
- Pressure and temperature monitoring
- PLC controlled
- Digital PID temperature controller
- Digital timer
- Alarm function
- Power 220V-50Hz
- Molds are up to customer
- Training video

Bending Tester

Specifications

Size range	mm	16, 20 and 25
Air input	bar	6

● Included ○ available/optional

- Training video
- Pneumatic type
- Table top model
- Mountable rollers
- Easy to change roller size



Petroleum Wax Analyzer

According to standard ASTM D721

Specifications

Cold bath temperature	C	-35°C±1°C
Temperature of melting bath	C	RT~90±5°C
Temperature resolution	C	0.1
Digital Timer		●
Sliding tubes		●
No. of stations		4
No. of rotameters		4

● Included ○ available/optional



- Evaporation device 1PC
- Cooling bath 1PC
- Hot bath 1PC
- Filter tube 4PCS
- Conical weighing bottle 4PCS
- Glass pipette 4PCS
- Low temperature thermometer
- Normal temperature thermometer
- Metal stirrer 1PC MTC 1PC
- Digital timer included
- Training video

Needle Penetration Tester

According to standard ASTM D 1321

Specifications

Bath temperature range	C	80
Displacement resolution	mm	0.01
Temperature resolution	C	0.1

● Included ○ available/optional



- Digital timer
- Digital display of needed movement
- Needle and sample cup as per standard
- Training video

Notch Milling Machine for Pendulum

Specifications

Cutter travel	mm	30
Depth resolution	mm	0.01

● Included ○ available/optional



- The notches are at different radius and angles
- Micrometer notches at 0.01 sensitivity
- Continuous machining is possible with electric motors
- 1 TS EN ISO 179-1 A type notch knife is given together with the machine
- Notch knives for various Standards(optional);
- ISO 180 Type A, Type B ISO 179 Type A, Type B, Type C
- Training video

Bulk/Apparent Density Tester

According to ISO 60

Specifications

Funnel Volume	ml	200
Measuring cylinder Capacity	ml	100
Internal diameter of measure cup	mm	45
Scale		0

● Included ○ available/optional



- Chrome plated hopper
- Aluminum hopper and weighting cup
- Gate type hopper outlet
- Sliding gate position
- Solid, warp resistant stand
- Height adjustable loading funnel
- Calibrated measuring cup

Universal Tensile Compression Ring Stiffness Tester

Specifications

		2Tons	5Tons
Test force	kN	5	10
Pipe inside diameter gage		0	
Compression plates		0	
Permissible ambient temperature	°C	-10 to +40	
Moving plate travel	mm	1000	
No. of guide shafts		4	
No. of Ball screw		2	
Moving plate size	mm	1000*1000	

● Included ○ available/optional

- Capacity maximum 20-50-100...KN
- Load resolution 1/10000
- Strength accuracy $\leq 0.001\%$
- Displacement resolution 1/1000
- Displacement accuracy $\leq 0.5\%$
- Speed range 0.01-300mm/min
- German ball screws
- PLC controlled
- Overload protection
- Travel limit switches
- Manual high speed up and down detachable hand key
- Power consumption about 2000W
- Windows based software
- Power 220V-50Hz
- Training video



Diameter Measuring Tape PI Tape

Specifications

Size Range	mm	
		20-300
		300-700
		700-1100
		1100-1500
		1500-1900
		1900-2300
		2300-2700
		15-115
		100-230
		200-330
		300-620

● Included ○ available/optional

- Spring stainless steel
- Laser engraving
- Belt type



Data-Logger for Pipe Butt Welding

Specifications

Display size	Inch	7
Pressure sensor range	bar	100
Temperature sensor	C	Up to 500

● Included ○ available/optional



- Training video
- Thermal printer included
- Pressure sensor included
- Temperature sensor included with clamp
- Touch display
- Water tight connectors
- USB data output for MS Excel

CNC Wire Winding Machine for Inserts of Electrofusion Fittings

Specifications

Diameter range	mm	25-225
Fitting length	mm	Up to 400
Speed	Pcs/min	3

● Included ○ available/optional



- CNC wire laying for socket fittings
- CNC wire laying for HDPE pads
- CNC wire winding for insert of electrofusion fittings
- Semiautomatic pad winding for electrofusion saddles and tapping Tees
- CNC winding for metal mandrels of electrofusion fittings
- Training video

Plastics Welding Hand Extruder

Specifications

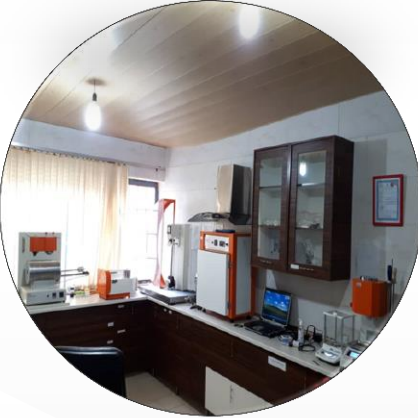
Welding rod	mm	3, 4
Temperature range	C	RT...350
Hot air temperature	C	Up to 600
Hot air flow	l/min	350 & 550
Hot air power	W	2000
Main motor power	W	1050

● Included ○ available/optional

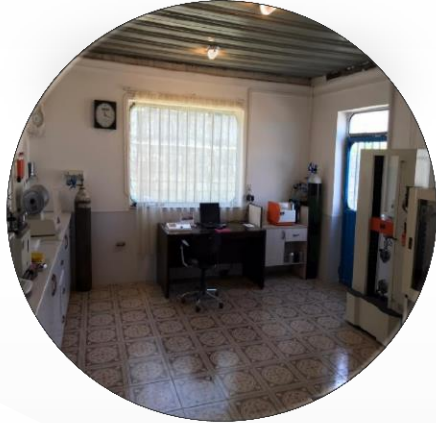


- Digital temperature controller
- Suitable for PE and PP
- Training video
- Korean temp controller
- German hot air tool
- Belt type heating resistance element

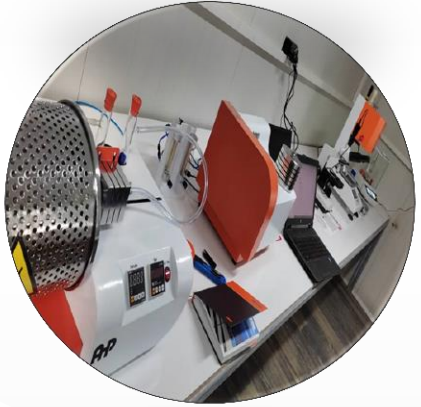
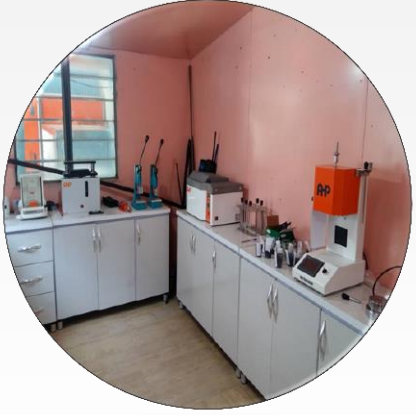
References :



References :



References :



Exhibitions :

Czech2019



Interplastica2020-Moscow



Aquatherm2020-Moscow

Exhibitions :

ERUSIA2019



Qatar exhibition 2019



IRAN2020



Exhibitions :



Indiaplast2019

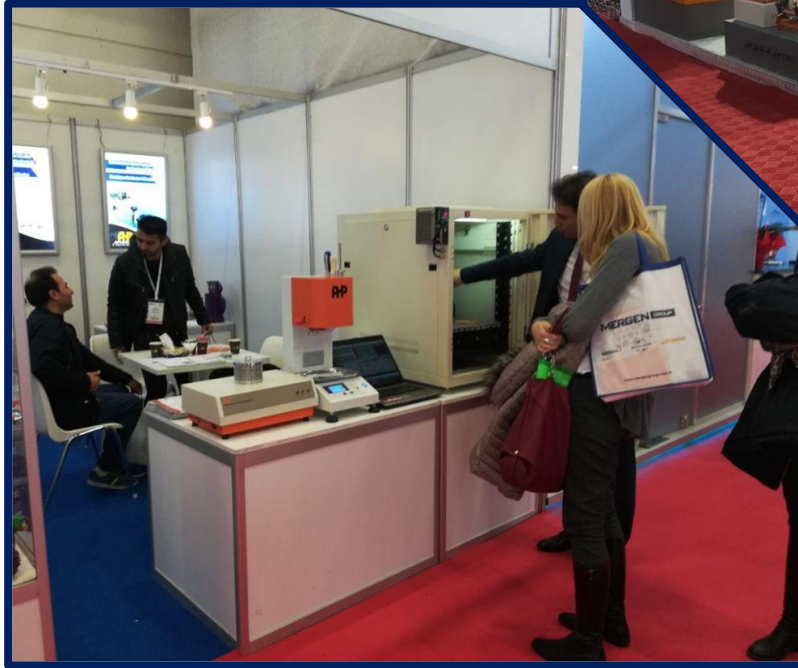


Malaysia2019



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Exhibitions :



IRAN2018



EURASIA2017

EURASIA2018

Malaysia2019