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Company Profile

DEESHA IMPEX, Ahmedabad, India redefines quality through innovation customization with a state of the art after sales service with a "Customer First" approach anytime anywhere in the world with the best price for our customers.

The genesis of our precision is due to our diverse origin, while we value our uniqueness and specific strengths of our team that takes us to perfection in tandem since our inception. We are a team of world class connected professionals with more than 1200 man years of engineering expertise to customize precision. We are headquartered at Ahmedabad, Gujarat in India with a state-of-the-art sales and service network across the globe.

DEESHA IMPEX R&D constantly monitors the industry transformations and in tandem with the manufacturing innovates the pioneering technologies with a quality perfection attitude customizes for customer satisfaction. These innovations have today produced a range of high quality precision testing equipments and created a range that caters to any testing machinery needs of the plastic industries of any size.

DEESHA IMPEX has a world class team of connected manufacturing professionals at Ahmedabad. We are company with a belief technology should be right sized with the process designed to minimize waste and customized to enhance performance with an embedded "Customer First Approach". Our home grown TOM Technique ensures right quality in every product to our manufacturing professionals at Ahmedabad, in tandem with our R&D customized the latest pioneering technology with our quality perfection attitude at an optimal cost for our customers. Every customer satisfaction sets a new benchmark of innovation creating a new product ensure a right test for your products.

Our embedded "Customer First" approach with our connected community perfection the quality precision by customizing the global expertise and delivering on Just – In – Time principle anytime anywhere across the five continents has created a state-of-the-art network of sales and service which functions with global attitude to customer satisfaction.



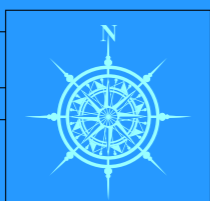
DEESHA IMPEX

Engineering, Precision, Excellence



universal tensile testing machine
co-efficient of friction tester slip
tester grips for universal tensile
testing hydrostatic pressure testing
reversion oil bath hot water bath
zero degree chamber deep freezing
chamber humidity chamber hot air
circulating oven heat deflection
vicat softening tester free falling
dart impact tester with digital
counter digital tensile impact tester
heat sealler pipe notch cutter
carbon black content carbon black
dispersion tester melt flow indexter
tester density tester as per column
method opacity indicator tester
bulk density tester muffle furnace
for ash content tester

hoop tensile tester
valve checking unit
warp reel machine
laboratory scale
injection molding
machine single screw
extruder lab model
compression moulding
press (lab model)two
roll mill

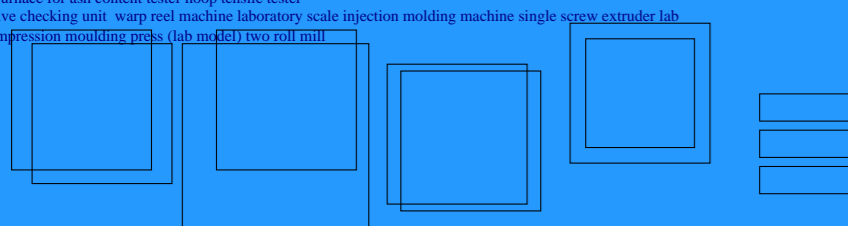


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universal tensile testing machine co-efficient of friction tester slip tester
grips for universal tensile testing hydrostatic pressure testing reversion oil bath hot water bath
zero degree chamber deep freezing chamber
humidity chamber hot air circulating oven heat deflection vicat softening tester
free falling dart impact tester with digital counter digital tensile impact tester
heat sealler pipe notch cutter carbon black content carbon black dispersion tester melt flow indexter tester
density tester as per column method opacity indicator tester bulk density tester
muffle furnace for ash content tester
valve checking unit warp reel machine laboratory scale injection molding machine single screw extruder lab
model compression moulding press (lab model)two roll mill

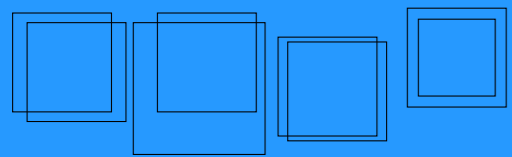


"We believe that Quality, Efficiency, First Class Service allow us to stand out from the crowd"



Finding First class Products and Services is a

DEESHA IMPEX



Engineering,
Precision,

Excellence



DEESHA IMPEX

UNIVERSAL TENSILE TESTER ○ ○ ○



Universal Tensile Tester

Model	DTD	DTD	DTD	DTD	DTD	DTD	DTD	DTD	DTD	DTD	DTD	DTD	DTD
Capacity	1N	2N	5N	10N	20N	100N	500N	1kN	5kN	10kN	100kN	200kN	400kN
Loading Method	Direct High Precision Constant Method												
Force Measurement	Within $\pm 1\%$ Indicated Test Force												
Calibration	Automatic Test Force Calibration. Tensile, Compression and COF												
Crosshead Speed Range	10 to 500 mm/min (0.001 to 1000 mm/min on Request)												
Maximum Travel Length	800 mm												
Speed Accuracy	$\pm 0.1\%$												
Effective Test Width (Max)	600 mm												
Display Method	Digital Display (Display resolution 0:001 mm)												
Positional Accuracy	$\pm 0.1\%$ Indicated Value												
Test Method	Tensile, COF (Slip Test) Compression Flexural, Peeling Tear Shear Banding Modulus of Elasticity Elongation												
Results / Graph	N-kg-lbf and in extension mm-cm-inch / Stress - Strain												
Standard Functions	Automatic reading of load cell characteristics value. Test force display function, stress display function, Position display function. Automatic test force/ stress control. Test force auto zeroing. Test force auto calibration. Break detection, Auto return. Load cell overload detection.												
Supply Voltage	Single Phase / Three Phase 100 / 120 / 220 / 240 / 440. V AC / 50 / 60 Hz. 1.2 KVA . Supply Voltage Fluctuation within $\pm 10\%$ of the Set Value.												
Software	Windows Based												



DEESHA IMPEX

RANGE OF UNIVERSAL TENSILE TESTING M/C. ○ ○ ○

RANGE OF UNIVERSAL TENSILE TESTING M/C. ○ ○ ○



Materials Testing Solutions for any Application

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CO-EFFICIENT OF FRICTION TESTER (SLIP TESTER) ○ ● ●



Co-Efficient of Friction Tester (Slip Tester)

Force Capacity	300 Gms. 500 Gms.
Maximum Cross Head Travel Between Eye Ends (Minimum)	200 MM.
Crosshead Speed Range	50 – 150 MM / Min.
Maximum Return Speed	50 – 150 MM / Min.
Speed Accuracy	± 0.5 %
Minimum Load Resolution	0.001 Kg.
Load Cell Accuracy	<0.5 %
Extension Resolution	0.1 MM
Data Sampling Type	Digital
Supply Voltage	230 VAC ± 10% / 15 AMP., 50 – 60 Hz.
Software	Windows Based

ANCILLARY EQUIPMENTS



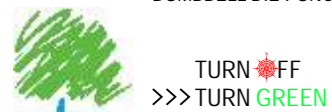
DUMBBELL DIE PUNCHES



DUMBBELL DIE PRESS



CRUSH RESISTANCE TESTER



GRIPS FOR UNIVERSAL TENSILE TESTER ○ ● ●



D-1



D-2



D-3



D-4



D-5



D-6



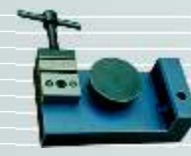
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D-9



D-10



D-11



D-12



D-13



D-14



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D-16



D-17



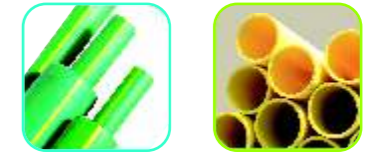
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DEESHA IMPEX



HYDROSTATIC PRESSURE TESTING ○ ● ●

REVERSION OIL BATH HOT WATER BATH ○ ● ●



END CAPS



Hydrostatic Pressure Testing

Description	Three Station	Four Station	Six Station	Eight Station
Pressure Range (Higher Capacity of Pressure range will be available on Request)	Up to 100 Bar	Up to 100 Bar	Up to 100 Bar	Up to 100 Bar
Pressure Accuracy	± 0.5	± 0.5	± 0.5	± 0.5
Least Count	0.01	0.01	0.01	0.01
Timer Range	999.9 Hrs.	999.9 Hrs.	999.9 Hrs.	999.9 Hrs.
Pressure Unit	Kg / Cm2, Bar, PSI	Kg / Cm2, Bar, PSI	Kg / Cm2, Bar, PSI	Kg C m2, Bar, PSI
Maximum Pressure (Higher Capacity of Pressure range will be available on Request)	Up to 100 Bar	Up to 100 Bar	Up to 100 Bar	Up to 100 Bar
Power	Single Phase 100 / 120 / 220 /240 V AC / 50/60 Hz. 1.2 kVA Supply voltage fluctuation within ± 10 % of the set Value.			
Pneumatic Pump (Higher Capacity of Pressure pump will be available on Request)	Up to 125 Bar	Up to 125 Bar	Up to 125 Bar	Up to 125 Bar
Transducer Output	4 to 20 mA	4 to 20 mA	4 to 20 mA	4 to 20 mA
Transducer Power Input	0 to 10 VDC	0 to 10 VDC	0 to 10 VDC	0 to 10 VDC
Transducer Range	0 to 100 Bar	0 to 100 Bar	0 to 100 Bar	0 to 100 Bar
Out Lets	1 / 3	1 / 3	1 / 3	1 / 3
Software	Windows Based			

Reversion Oil Bath

Size	23" x 30" x 18", 30" x 30" x 18"
Range	Up to 200 °C.
Least Count	0.1 °C.
Accuracy	± 0.5 %.
Body	Inside S. S., MS. Structure Powder Coated.
Oil Circulation	Radial Stirrer Fan.
Temp. Controller / Sensor	PID / RTD - PT 100
Power	Single Phase 100 / 120 / 220 /240 V AC / 50/60 Hz. 1.2 kVA . Supply voltage fluctuation within ± 10 % of the set Value.

Hot Water Bath

Size	30" X 20" X 15", 48" X 30" X 18", 48" X 30" X 28", 40" X 20" X 40", 60" X 30" X 46"
Range	Ambient Temperature to 90 °C.
Least Count	0.1 °C.
Accuracy	± 0.5 %.
Body	Inside S. S., MS. Structure Powder Coated.
Temp. Controller / Sensor	Motorized Pump.
Water Circulation	PID / RTD - PT 100
Power	Single Phase / Three Phase 100 / 120 / 220 /240 / 440. V AC / 50/60 Hz. 1.2 kVA.. Supply voltage fluctuation within ± 10 % of the set Value.

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ZERO DEGREE CHAMBER (DEEP FREEZING CHAMBER)
 HUMIDITY CHAMBER ○ ● ○



DEESHA IMPEX

FREE FALLING DART IMPACT TESTER (FOR FILM)
 FREE FALLING WEIGHT IMPACT TESTER (FOR PIPE) ○ ● ○



Zero Degree Chamber

Temperature Range	Ambient to - 10 °C
Chamber Size	18" X 18" X 18" , 60" X 30" X 24"
Resolution	0.1 °C
Accuracy	± 0.5 °C.
Temp. Controller / Sensor	PID / RTD - PT 100
Compressor	Kirlosker / Blitzer.
Body	Inside S. S., MS. Structure Powder Coated.
Power	Single Phase 100 / 120 / 220 /240 V AC / 50/60 Hz. 1.2 kVA Supply voltage fluctuation within ± 10 % of the set Value.

Humidity Chamber

Temperature Range	Ambient to - 60 °C
Humidity Range	40 to 95 % RH.
Chamber Size	24" X 24" X 24"
Body	Inside S. S., MS. Structure Powder Coated.
Temp. Controller	PID
Resolution	0.1 °C
Accuracy	± 0.5 °C.
Compressor	Kirlosker / Blitzer.
Power	Single Phase 100 / 120 / 220 /240 V AC / 50/60 Hz. 1.2 kVA . Supply voltage fluctuation within ± 10 % of the set Value.



Free Falling Dart Impact Tester (For Films)

Sample Clamping	Pneumatic Clamp.
Falling Height	Adjustable up to 2 Mtr.
Falling Weights	According to Standard Specification.
Counter Meter	up to 9999 counts.
Falling of Weight	Through magnetic system.
Body	MS Structure and Sheet Metal.
Power	Single Phase 100 / 120 / 220 /240 V AC / 50/60 Hz. 1.2 kVA Supply voltage fluctuation within ± 10 % of the set Value.

Free Falling Weight Impact Tester (For Pipes)

Height Adjustment	Pneumatic System.
Falling Height	Variable Height up to 2 Mtr.
Falling Weights	Drop Weights According to Standard
Control	Advance Microprocessor Control
Falling of Weight	Magnetic System
Body	MS Structure and Sheet Metal.
Power	Single Phase 100 / 120 / 220 /240 V AC / 50/60 Hz. 1.2 kVA Supply voltage fluctuation within ± 10 % of the set Value.

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DIGITAL TENSILE IMPACT TESTER
HEAT SEALER LAB MODEL



PIPE "V" NOTCH CUTTER & NOTCH CUTTER
CARBON BLACK CONTENT



Digital Impact Tester

Hammer	Up to 25 Joule.
Unit	Joule & KJ/M2.
Accuracy	± 0.5 %
Test	Izod, Charpy, Tensile Impact.
Type	Pendulum.
Control	Advance Microprocessor Control
Power	Single Phase 100 / 120 / 220 /240 V AC / 50/60 Hz. 1.2 kVA. Supply voltage fluctuation within ± 10 % of the set Value.

ACCESSORIES FOR
IZOD-CHARPY



HARDNESS TESTER

Laboratory Heat Sealer

Working Principle	Pneumatic system.
Temp. Controller	PID
Temp. Range	Ambient to 220 °C.
Least Count	0.1 °C.
Accuracy	± 1 °C
Power	Single Phase 100 / 120 / 220 /240 V AC / 50/60 Hz. 1.2 kVA. Supply voltage fluctuation within ± 10 % of the set Value.

Pipe V Notch Cutter

Pipe Diameter	up to 180 mm.
Notch Length	PCB Controlled
Notch Speed	Adjustable
Notch Depth	60°
Least Count	0.01 mm.
Control	Microprocessor Controller
Power	Single Phase 100 / 120 / 220 /240 V AC / 50/60 Hz. 1.2 kVA. Supply voltage fluctuation within ± 10 % of the set Value.

Notch Cutter

Sample	One
Speed	Matric or Imperial Traverse
Notch Depth	Micro Adjustment
Driven	Motorized
Power	Single Phase 100 / 120 / 220 /240 V AC / 50/60 Hz. 1.2 kVA. Supply voltage fluctuation within ± 10 % of the set Value.

Carbon Black Content Tester

Temperature range	100 – 950 °C
Temp. Controller / Sensor	PID / K Type
Accuracy	± 0.5 %
Least Count	0.1 °C
Heater	1 Kw.
Power	Single Phase 100 / 120 / 220 /240 V AC / 50/60 Hz. 1.2 kVA. Supply voltage fluctuation within ± 10 % of the set Value.

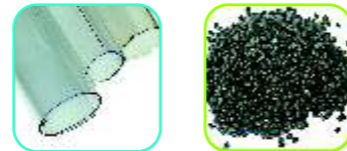
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CARBON BLACK DISPERSION TESTER WITH CCD CAMERA UNIT
MELT FLOW INDEX TESTER
DENSITY GRADIENT TESTER (COLUMN METHOD)



HOT AIR OVEN
DIGITAL DENSITY TESTER
OPACITY TESTER



Carbon Black Dispersion Tester

Projection	Microscope
Doom size	6" Dia.
Magnification Range	100 X, 200 X, 400 X.
Accuracy	± 0.5 %
Least Count	0.1 °C
Power Supply	230Vac/50Hz ±10%



Hot Plate

Plate Dia	8"
Temperature Range	300 Degree

Melt Flow Index Tester Auto Cutter / Without Auto Cutter

Temperature Range	400°C
Least Count	0.1°C
Temperature control	±0.1°C
Temperature sensor	RTD / PT 100 Sensor.
Timer accuracy	0.01 second
Power	Single Phase 100 / 120 / 220 / 240 V AC / 50/60 Hz. 1.2 kVA . Supply voltage fluctuation within ± 10 % of the set Value.

Density Gradient Column (Single / Double)

Column Working Length	700 MM
Column Jacketing	Acrylic
Floats	Glass
Stirrer	Magnetic
Power	Single Phase 100 / 120 / 220 / 240 V AC / 50/60 Hz. 1.2 kVA . Supply voltage fluctuation within ± 10 % of the set Value.

Hot Air Oven

Size	12" x 12" x 12", 14" x 14" x 14", 18" x 18" x 18", 24" x 24" x 24", 36" x 36" x 36"
Range	Up to 200 °C.
Least Count	0.1 °C.
Accuracy	± 0.5 %.
Body	Inside S. S., MS. Structure Powder Coated.
Air Circulation	Radial Stirrer Fan.
Temp. Controller / Sensor	PID / RTD - PT 100
Power	Single Phase 100 / 120 / 220 / 240 V AC / 50/60 Hz. 1.2 kVA . Supply voltage fluctuation within ± 10 % of the set Value.

Density Tester (Specific Gravity) (weight In Air / Weight In Liquid)

Maximum load value	200 gms.
Reading	Advance Microprocessor Control
Body	MS. Structure Powder Coated.
Power	Single Phase 100 / 120 / 220 / 240 V AC / 50/60 Hz. 1.2 kVA. Supply voltage fluctuation within ± 10 % of the set Value.

Opacity Tester

Method	Infrared
Reading	Advance Microprocessor Control
Light Source	Halogen Lamp
Resolution	1.0 Opacity.
Power	Single Phase 100 / 120 / 220 / 240 V AC / 50/60 Hz. 1.2 kVA. Supply voltage fluctuation within ± 10 % of the set Value.

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HDT / VSP TESTER
 SULPHATED ASH CONTENT (MUFFLE TESTER)
 BULK DENSITY TESTER



Heat Deflection Tester Vicat Softening Point Tester

Description	Single Station	Two Station	Four Station	Six Station
Temperature Range	Ambient to 200 °C	Ambient to 200 °C	Ambient to 200 °C	Ambient to 200 °C
Temperature Ramp	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Linear Measurement	LVDT	LVDT	LVDT	LVDT
Range	0. To 10 MM			
Least Count	0.01Gm.			
Power	Single Phase 100 / 120 / 220 /240 V AC / 50/60 Hz. 1.2 kVA / Supply voltage fluctuation within ± 10 % of the set Value.			
Software Requirement	On Request.			

Sulphated Ash Content (Muffle Tester)

Temperature range	Ambient to 1000 °C.
Temperature Resolution	1°C
Power Requirement	1.5 Kw.
Furnace Size	9" x 4" x 4" / 12" x 6" x 6"



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CUSTOMIZED TESTING EQUIPMENTS



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HOOP TENSILE TESTER



Hoop Tensile Tester

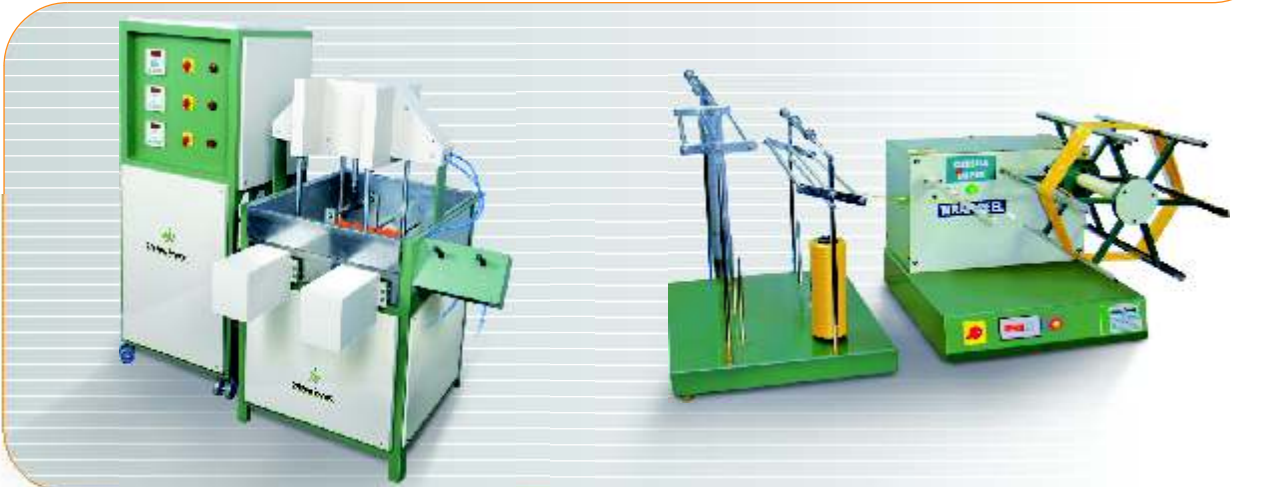
Capacity	45 Ton.
Plate	Horizontal
Over Load Protection	Limit Switch & Program
Pulling System	Hydraulic
Stroke	200 MM.
Power Pack	Controlled by Solenoid Valve.
Speed	Adjustable
Range	1 Kg.
Accuracy	± 1 %
Least Count	1 %.
Reading	Advance Microprocessor Control
Software	Windows Based
Power	Single Phase / Three Phase 100 / 120 / 220 /240 / 440. V AC / 50/60 Hz. 1.2 kVA.. Supply voltage fluctuation within ± 10 % of the set Value.

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VALVE CHECKING UNIT BY AIR PRESSURE
WRAP REEL MACHINE

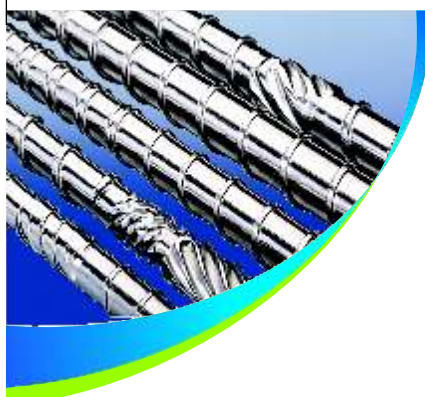


Valve Checking Unit By Air Pressure

Pressure range	0.01 Kg / Cm2 to 25 Kg. / Cm2.
Pressure Gauge	Digital
Accuracy	0.25 %.
Pressure	Air Pressure Regulator
Test Capacity	2 Valve

Wrap Reel Machine

Operation	Motorized
Reel Diameter	1 Meter
Body	M. S. Powder Coated
Speed	75 RPM
Motor	1/8th HP single phase geared motor.
Power	5 Amps, single phase 230 vAC.



LABORATORY SCALE INJECTION MOLDING MACHINE
SINGLE SCREW EXTRUDER LAB MODEL



LABORATORY SCALE INJECTION MOULDING MACHINE

Screw Diameter	mm	18
Theoretical Shot Volume	CC	17
Shot Weight	Gm	15
Injection Pressure	Kg./CM2	1300
Screw Stroke	mm	70
Screw Speed	RPM	400
Nozzle Stroke	Mm	100
Temperature Control	Zone	4
Clamping Unit		
Mould Clamping Force	Tons	10
Mould Opening Stroke	mm	120
Tie bar Distance	mm	100 x 175
Maximum Day Light	mm	295
Tie Bar Distance (H x V)	mm	148 x 48
Mould Platen Size	mm	230 x 230
Electrical Unit		
Pump Motor	Kw	2.2
Heating Load	kW	2.2

SINGLE SCREW EXTRUDER LAB MODEL

Suitable for Material	PE, PP, ETC
Suitable for	To test Filter Test. The test is depends upon the dimensions and required/desired quality of pigment and on compound.
Type of Extruder	Single Screw
Screw Diameter	20mm
L/D Ratio	30: 1
Main Drive	1.5 KW AC
Barrel Heating Zones	3
Polymer Gear Pump	3cc/RPM
Barrel Cooling Blower	1 no
Temperature Controller	PID Digital Type





COMPRESSION MOULDING PRESS (LAB MODEL) TWO ROLL MILL



Compression Moulding Press

Working Area	250 (mm x mm)Plate
Dimensions	300 (mm x mm)
Daylight Opening	195mm
Press force	up to 50 tones
Hydraulic pressure	up to 150barsWorking temperature:up to 300°C
Heating power	1.5kW
Control	Advance Microprocessor Control
Connections	Power cabinet 3-phase+neut Water supply ½ inch external hose connection for cooling

Two Roll Mill

Dimensions	150 mm
Width	350 mm
RPM	AC Variable Drive
Friction Ratio	18/23 RPM
Temperature	250°C
Accuracy	1°C
Roll	S. S. 304
Control	Advance Microprocessor Control
Power	415volts, three phase + Neutral + Earth, 50 Hz.

