

QUALITY CONTROL
EQUIPMENT

darteno industries



Your lab engineering partner



ProMelt

MARSHAL



POLYMER AND MASTERBATCH EQUIPMENT

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FILTER TEST MACHINE

MARSHAL Filter Test Machine is made as per EN 13900-5 / EN ISO 23900-5 DIN standard used to check the dispersion of the colorant (Pigment or filler) in a polymer compound or plastic masterbatch. Filter Test Machine (commonly known as filter tester , ΔP tester, FPV tester) measures differential melt pressure which indirectly indicates the quality of dispersion & particle size of pigments into various polymers.



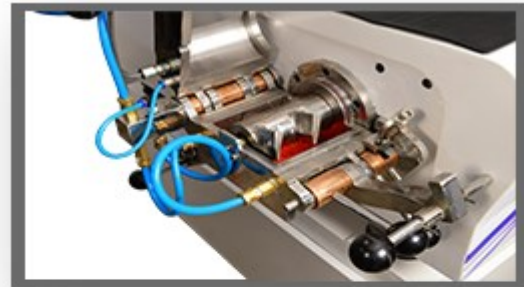
Operational Features

- On-screen display along with data input; synchronized with mechanical & electronic devices
- Auto generated test report in PDF format & hard copy
- Online software system troubleshooting through internet
- Assured quality screen packs

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GELIMIX COMPOUNDER

MARSHAL Gelimix Compounder is ideal machine for making sample of complex polymer compounds, wood or cellulose fibre composites as well as colour concentrates (masterbatches). It simplifies the processing of advance high-temperature compounds. Melt temperature more than 260°C can be achieved in seconds by frictional heat.



Operational Features

- Fastest & efficient compounding technology by integrating Thermo-Kinetic dynamics
- Process polymers like PE, PET, PBT, PS etc.
- Small batch size to avoid material wastage & to minimize the process time
- Efficient development of new shades & formulations
- Suitable for high filled compounds

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LAB BLOWN FILM LINE

Marshal Lab Blown Film Line (also known as blown film machine, lab blown film extruder) is used for demonstrating & testing the properties of pigments, masterbatches & compounds in mono layer blown film extrusion application. This Lab blown film extruder is identical in function to its full sized blown film line. The lab blown film line extruder allows running small test batches prior to production. Marshal Blown film line ensures the quality of input raw materials before goes in to large scale production to save huge production losses.



Operational Features

- Minimized batch size
- Exposes the dispersion of pigments & additives in masterbatches
- More variable for customized testing applications
- Maximum homogenization of test mix
- Faster cleaning for more tests per day

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TWO ROLL MILL

Marshal Two Roll Mill also (known as Twin roll mill, Rubber mixing mill) is a worldwide accepted lab compounding machine for lab evaluation of pigment and masterbatch. This Lab Two roll mill is also used for uniform pigment & polymer mastication. Marshal Two roll mills is normally used in combination with Marshal Lab Hydraulic Press. Between two electronically heated rollers with precise nip gap, the compound is masticated for controlled time at measured friction ratio. The results are compared after getting the compression molded uniform chips from Marshal Lab Hot Hydraulic Press.



Operational Features

- Uniform temperature distribution across rollers
- Reproducibility of results
- Rapid cooling of rollers by water circulation in the roller core for frequent polymer change.
- Any polymer like LDPE, HDPE, PP, PVC, PS, ABS, HIPS, Natural Rubber, EVA etc. can be tested
- Uniquely designed doctor's blade for ease in scrapping the melt

HYDRAULIC PRESS

Marshal Hydraulic Hot lab Press also (known as Lab compression press, Lab platen press and Automatic Hot lab press) is a vertical compression lab molding machine used to carry out various polymer chips & pallets normally in combination with Marshal Lab Two Roll Mill. Marshal Lab Hydraulic press is used to make the uniform & comparable chips from the polymer melt with control & précised temperature & at constant compression pressure.



Operational Features

- Less wastage of polymer
- Verity of compression moulds available for customised preferences
- Precise & uniform heating



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'MARSHAL' BRAND EQUIPMENT

PLASTIC & MASTERBATCHES TESTING EQUIPMENT

- ⇒ Filter Test Machine
- ⇒ Twin Roll Mill
- ⇒ Hydraulic Press
- ⇒ Lab Blown Film Line
- ⇒ Lab Extruder & Pallatizer
- ⇒ Lab Injection Molding
- ⇒ Gelimix Compounder
- ⇒ Lab Cast Film Line

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