



MICROQUICK
ENGINEERS

Manufacturer of Dispersion Kneaders



Make Faster, Consistent Quality Compound At Less Labour

- Excellent Dispersion of Ingredients
- Faster Batch Preparations than that of mixing mill
- Minimal fly of ingredients – Carbon black & other

Benefits:

● Making your customers to impress on Consistent Quality Compound:

- The hydraulic Positive Pressure, Differential rotation of rotors & Wide Squeezing Helical lap of rotors make ingredients to undergo Pressing, Stretching, Tear, Folding, and Unfolding & Smear. These actions impart to convert ingredients in multitude of small component, Molecular bonding on exothermic reaction and Fusion (combining) of particles of solid.
- This result into Excellent Dispersion of ingredients and preparation of Consistent Quality compound at constant timer based operations.

● Produce more & more rubber compound

- The time of batch preparation is between 8 to 15 minutes, depends on kind of ingredients and shore hardness of compound.
- The Batch preparation time with kneader is half to that of mixing mill.

● Save Money, Shorter Payback Period

- Electric power consumption is half to that of conventional compounding in mixing mill.
- The semi skill / learned helper can operate this machine, therefore reducing labour cost.
- The operational cost could be INRs. 1.5 to 2/- per kg of compound.
- The payback of investment could be as minimum to 1 year.
- Almost zero down time due to maintenance.

● Operator's Friendly

- Easy to operate, less fatigue to operator & Enhanced operational safety.

● Compact size

- The floor space occupancy of main machine could be approx 9-11ft (L) x 5-6 ft (W) and 8-9 ft (H). The Control Panel, Dust collector occupy less space.



Technical Features

● Hydraulic Operational: Bushak Shamban – German make Hydraulic Seals

- The hydraulic ram exerts positive pressure on the batch and can be accurately controlled in the desirable position which leads to better dispersion of ingredients and batch to batch consistency.
- The air compressor is not needed. In case of pneumatic, the ram moves completely uncontrolled and the ram position is controlled by the and the size of ingredients it is trying to force into the rotors

● Rotors: Meticulous selection of steel and design

- Anti- breakage properties of Rotors due to cyclic / endurance load.
- Wide base & width of wings make it stronger and enable good smear of ingredients
- Carbide coat on squeezing lap of rotors.
- Corrosion Resistant

● Mixing Chamber: Innovative treatment for two layer of wear resistance

- Wear resistant of mixing chamber to that of ingredients of compound.
- Mirror polished and hard chrome plated for ease in ejection of compound.

● Cooling: Proven

- Effective cooling by surrounding jacket of mixing chamber, inside rotors and inside pressure block enables ingredients to compound at lower temperature.
- Proven design and construction that water shall not leak into mixing chamber.

● Ram Movement

- Micro Processor based programmed for the auto operational movement of ram based on current load in respect to set time.

Application Rubber Compounding

- | | |
|---|------------------------------|
| ● Nitrile Rubber (NBR) + Filler | ● Blend of NR + SBR + Filler |
| ● Natural Rubber (NR) + Filler | ● Neoprene (CR) + Filler |
| ● Hypalon (CSM) + Filler | ● EPDM + Filler |
| ● Styrene Butadiene Rubber (SBR) + Filler | ● Blend of CSM+ NR + Filler |
| ● Blend of NBR+NR+SBR + Filler | |

The Fillers like Carbon, Silica, CaCo3, TiO2 and Clay are being used as Fillers. The Pigments (Color), Accelerator, Retarder, Anti Oxidant, Zink Oxide, Plasticizer, are being used during this compounding.

NBR+SBR+Silica+Clay



NBR+Carbon



NBR and Silica



Application Polymer Compounding

- PE, PP - Master batch Compound
- Polymer Pencil Compound
- Pencil Lead Compound
- Nylon + Ferrite Compound
- EVA Compound for Sole
- TPE Compound.

Color Master
batch Compound



Polymer Pencil
Compound





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Manufacturer of Standard Rubber Bale Cutter

- **Suitability of maximum Rubber bale dimensions :**
With 600mm, Thickness- 300mm
- **Operation :** Hydraulic Operational.
- **Stroke of Blade :** Maximum to 350mm.
Adjustable stroke by two limit switches from 200mm to 350mm. Up to. 6 cuts per minute.
- **Safety Electrical :** Two Push Buttons for Operation of blade. Two Limit switches for stroke adjustment and for prevention of damage of blade. Include emergency stopper.
- **Safety for Blade cutting edge :** Provision of Restrictors which Prevents blades to come down beyond set stroke.
- **Safety guards :** For People Protection
- **Material of Conveying Roller :** Stainless steel Travel
- **Long Lasting Cutting edge :**
Keeps going and going in cutting of rubber bales
- **Safety :** Care to your Ten Fingers
- **Ergonomics Comfort:** European design

Contact

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