



Let's Give
Shape To Your
Imaginations

### **About Us**

Since our commencement is in year 1995, we, "Navdurga Engineers" & "Mahek Roto Mech" an ISO 9001:2015 CERTIFIED COMPANY are counted as a leading organization engaged in manufacturing, supplying and exporting a commendable range of Rotomoulding Machinery & Plastic Extrusion Plant. Our product range encompasses of Bi-Axial Rotomoulding Machine, Open Flame Rock And Roll Machine, Closed Oven Rock & Roll Rotomoulding Machine, Pulverizer, Plastic Extruder Machine For Recycling and coloring / Plastic Granules Making Machine, Automatic Washing Line, SS & MS Hollow Article Moulds, HDPE & PVC Pipe Plants, Scrap Grinder, Mixture, Agglomerator & other auxiliary equipments.. The products ofered by us are highly applauded in the market for its attributes like low maintenance,longer service life, robust construction, sturdy design, optimum strength, less power consumption, easy to handle and environment friendly. Based in Ahmedabad (Gujarat), India, since our inception, ours is sole proprietorship (individual) firm. Our offered products cater to the needs of many industries as we are aware about our customers' requirements and adaptability. We always strive to bring necessary innovations and up-gradation in our existing product range to face techno-commercial challenges of the current & future trends of the market.

Our organization is jointly managed by our mentors "Mr. Haribhai Panchal", (Director Technical), "Mr. Nitin Panchal", (Proprietor @Navdurga Engineers) (Mechanical Draftman), "Mr. Mukesh Panchal" (Proprietor @Mahek Roto Mech) (Diploma Plastic Engineer) and "Mr. Nirav Panchal (BE Mechanical Engineer). They hold in-depth knowledge in this domain due to which, we have garnet huge client base across the market.

### **Our Aim**

With the aim to achieve the heights of success, we have developed state-of-the-art infrastructure facility at our premises Our developed infrastructure is well equipped with sophisticated machineryand cutting-edge technology to manufacture our entire range with an ease. Further, to operate our machinery and equipment, we have appointed a competent and proficient team of expert professionals, who carry our business operation in a streamlined manner. All our professionals hold extensive knowledge of plastic part design, tolling & processing conditions and are appointed after strict recruitment process. In order to ensure efficient and robust processing capability, we use quality-approved raw material that is procured from authentic and reliable vendors of the industry. Also, all our products are in adherence with the global quality standards and guidelines. Owing to our never ending commitment towards quality and value based business ethics, we have assured a loyal network throughout the world for ourselves. Moreover, we conduct testing, process control, inspection, periodic reviews, complaint handling and feedback at regular basis. As, we are appreciated for all these features, our company has garnet a huge client base across the market. Some of our major markets are in Indian Subcontinent.

### **Our Mission**

We Promise to provide quality product and service to customer by serving our advance Rotomoulding Projects and other Machineries.

"Our mission is to give shape to your imaginations."









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#### BI-AXIAL ROTOMOULDING MACHINES THREE/FOUR ARM BI AXIAL ROTOMOULDING MACHINE Straight arm Mould Offset Arm Mould Ltrs/12 Hours **Mounting Capacity Mounting Capacity** (Ltrs x nos) (Ltrs x nos) (HP) 45 500X4,750X2,1000X2 NF/3A/1000 27.000 29 NF/3A/2000 45 500X4.750X2.1000X2 2000X1 35.000 32 1500X2 500X4,750X2,1000X2 NF/3A/3000 45 2000X1.3000X1 40.000 32 1500X2 NE/4A/5000 45 500X4,750X2,1000X2 2000X1,3000X1 43.000 37 1500X2 5000X1 NE/4A1/5000 45 500X8,750X4,1000X4 2000X1,3000X1 59,000 5000X1 1500X2 NE/4A/10000 500X8,750X4,1000X4 3000X1,5000X1 7500X1.10000X1

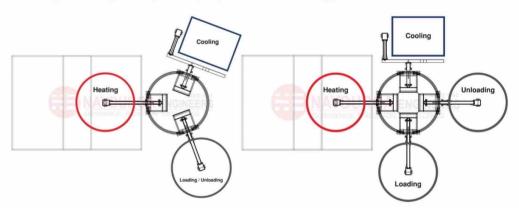
Mentioned Production rates are for virgin material and considering largest mould in the model segment.



# 1.1 Four/Three Arm Bi-Axial Rotomoulding Machine

- Most efficient in fuel & energy consumption compared to other types of machines.
   Uniform heating of the mold with forced air circulation and smooth Bi-axial rotation produce finish product quality.
- Highest production due to lowest cycle time.
- · Uniform distribution of material hence possible to produce article with lesser weight.
- · Best compatibility in the market due to lowest production cost.
- Lowest rejection rate due to sound & proven technology.
- · Energy efficient & environment friendly auto system Italian make burner.
- Flexibility to produce double & triple layer upto six layer tanks due uniform distribution of material.
- · AC drives of reputed brands for all minor & major axis's for accurate speed control.
- · Powder coated electrical control panel with dust proof construction & with all switch gears.
- Control panel is equipped with AC drives, digital indicators, temperature controller, timer & advance automation circuit for entire process control & all necessary safety features.
- · Auto reverse forward panel for minor axis's.
- · Optional attachments :

Powder loader machine (to fill up the mould with less efforts with use of powder loader)
HMI based control panel (advance touch screen control system with automation facilities)
Lift (to travel quickly to the oven top for powder loading process)
pneumatic spanner along air compressors (to open/close moulds easily).



Three Arm

Readymade Coloured
LLDPE powder

Readymade Virgin
LLDPE Granules

Mixture Machine
(For Colouring)

EXTRUDER MACHINE
(For Coloured Granules)

Final Product

Rotomoulding Machine

Pulverizer
(for powdering)

Four Arm



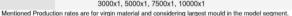


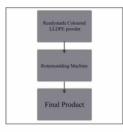
# 1.2 Closed Oven Box Rock And Roll Rotomoulding Machine

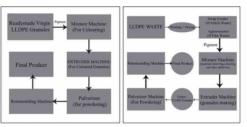
- · Low Investment machine
- · Less amount of Space required
- · Lowest fuel consumption
- · Low power consumption
- · Lowest maintenance cost.
- · 1 Operator + 2 unskilled labor required
- · Hydraulic cylinder for Door open/close & machine operation
- · Easy to operate
- · Flexibility to produce double & triple layer upto six layer tanks due uniform distribution of material.
- · Oven heated by LPG by shifting nozzle and gas firing system.
- · Optional attachments :

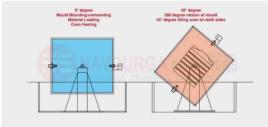
Powder loader machine (to fill up the mould with less efforts with use of powder loader) HMI based control panel (advance touch screen control system with automation facilities) pneumatic spanner along air compressors (to open/close moulds easily),

| Model           | Cycle<br>Time<br>(Min) | Mould<br>Mounting Capacity<br>(Ltrs x nos)                            | Production<br>Ltrs/12 Hour | Connecting<br>Load<br>(HP) |
|-----------------|------------------------|---|----------------------------|----------------------------|
| NE/CB/RNR/5000  | 50                     | 500x4, 750x2, 1000x2, 1500x1, 2000x1, 3000x1, 5000x1                  | 15,000                     | 9                          |
| NE/CB/RNR/10000 | 50                     | 500x6, 750x4, 1000x4, 1500x2, 2000x2, 3000x1, 5000x1, 7500x1, 10000x1 | 30,000                     | 15                         |









# 1.3 Open Fire Rock And Roll Rotomoulding Machine

- · Best for start up in a low investments.
- · Can produce upto 40,000 ltrs..
- Special article like Drainage Pipes, Boats up to 6.5 mtr. can be produced on Rock n Roll comfortably.
- Sturdy Machine suitable for manufacturing large size hollow products. Up to 40000 ltrs capacity.
- · Machine operating function through control panel.
- · Low cost, more production for big size hollow product.
- · Low pressure outside adjustable individual burners are user friendly for effective heating, low consumption of fuel, trouble free services for long time.
- · Process fully visual and as such very less chances of rejection of products, higher production and less break down & maintenance.

## Model Available

- NE/RNR/RN/5000 (100 to 5000 Ltrs)
- NE/RNR/RN/25000 (100 to 25,000 Ltrs)





## 1.4 Plastic Pulverizer Machine (Plastic Powder Making Machine)

- Complete robust & very sturdy structure for sound and vibration free operation.
- · Magnetic type vibrating feeder for uniform and controlled feeding of material.
- · Main grinding disc made from superior grade material for longer life.
- · Very effective water cooling system with jacketed arrangement.
- Vibratory screen for fine re-pulverizing of course material.
- · Main shaft made from special hardened steel and dynamically balanced.
- Powder coated electrical control Panel with all safety features & major switch gears of M/s L&T or reputed make.
- · All mechanical components and electrical accessories are of reputed & reliable make.
- Complete design with flexibility & perform fine pulverizing of wide range of plastics material like LLDPE, LDPE and PVC other heat sensitive material.

|            | PLASTIC PULVE      | ERIZER MACHINE          |                       |
|------------|--------------------|-------------------------|-----------------------|
| Model      | Blade Size<br>(mm) | Connecting Load<br>(HP) | Production<br>(KG/HR) |
| NE/400/PUL | 400                | 30                      | 100-120               |
| NE/500/PUL | 500                | 40                      | 150-175               |
| NE/600/PUL | 600                | 50                      | 180-250               |

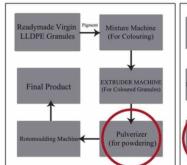


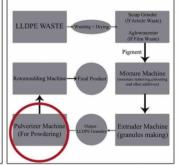




# **Other Details**

- · The polymer resin are mostly available in granules form for certain specific end use.
- Some mixing and molding process needs the polymer resin powder.
- · The granules are normally grinded in pulverizer to smaller evenly sized particles.
- The ground particles are thereafter passed through sieve vibrator to ensure maximum evenness for subsequent process need.
- · The material to be pulverized is introduced through the center of the grinding disc.
- · It is then pushed outwards by the centrifugal force between stator and rotary disc.
- A power suction unit system draws of the material below the mill and cools it intensively.
- After separation by a cyclone the material falls into a vibrating machine which is adopted
  to the special requirements of plastic material.





# 1.5 Moulds For Rotomoulding



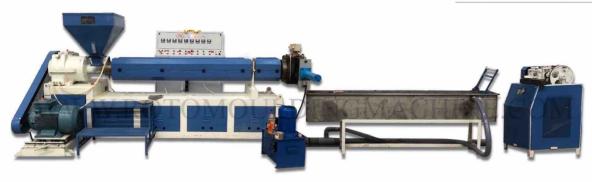
- · Verticle Water Tank Moulds
- · Horizontal Water Tank Moulds
- · Loft Tank Moulds
- Dustbin Moulds
- · Road Barrier Moulds
- Traffic Cone Moulds
- Each Hollow Product Moulds which are suitable for Rotomoulding.



750 ltrs to 5,000 ltrs



# 2.1 Plastic Granules Making Machine (Plastic Extruder)









#### Screw & barrel are made of EN41-B mild steel, nitride and honing finished for quality production & longer durable life.

- Optional: Tungsten carbide coated screw & barrel available, for high production machines to provide a longer durable life.
- · Screw design for reprocessing & coloring application of LLDPE, HDPE, LDPE, PP, HM, PVC, ABS & HIPS.
- · Screws are designed for specific material to get better quality for specific material while producing single category material or universal design for every material.
- · Barrel has been divided into heating zones for accurate temperature control.
- Digital pyrocontrol panel for faster heating & energy saving.
- Thermocouples are provided for each heating zones for temperature control through digital temperature controllers.
- · Movable motor attachment provided for main AC motor & pelletizing motor.
- . Extruder unit is consisting of heavy & sturdy MS channel's fabricated frame and covered with CRC sheet.
- · High efficient hopper magnet provided for detect and restrict the ferrous material from the polymer.
- · Screw is rotated by suitable AC motor with heavy duty helical gear box. AC motor and helical gear box are from reputed brands.
- Hydraulic screen changer provided to filter molten plastic in case it contains dust or particles. Die attached with hydraulic screen changer which converts molten plastic into plastic strands after filtration. Comes along power pack.
- Cooling tank is fabricated from stainless steel sheet, which mounted on height adjustable fabricated stand. Where guide rollers are provided to convey the strands forward towards pelletizing unit.
- Pelletizing unit fabricated from heavy angles, where peletizer is mounted which has consisting sets of carbide tips moving blades. Unit is driven by AC motor.

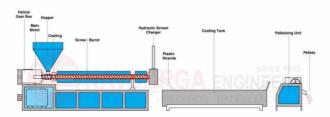
#### SINGLE STAGE PLASTIC GRANULES MAKING MACHINE (NON VENTED) NE/75/EXT NE/90/EXT NE/100/EXT NE/110/EXT NE/125/EXT Article Waste 180-200 240-250 (PP.HDPE, LLDPE etc.) 110-130 Film Waste 90-100 150-180 200-250 (LDPE.HM etc.) HIPS/ABS 60 66 96 106 Connecting Load Running Load 70 Space Requirem 30y6y6 5 24y3y5 27x5x6 27x5x6 28y5y6 5 (LXBXH)

Raw material must be washed and sorted according plastic category to get mentioned production rate

| SINGLE STAGE PLASTIC GRANULES MAKING MACHINE (VENTED) |       |           |           |            |            |           |
|---|-------|-----------|-----------|------------|------------|-----------|
| Model   | Unit  | NE/75/EXT | NE/90/EXT | NE/100/EXT | NE/110/EXT | NE/125/EX |
| Article Waste<br>(PP,HDPE, LLDPE etc.)                | Kg/hr | 70-80     | 100-120   | 130-150    | 180-200    | 240-250   |
| Film Waste<br>(LDPE,HM etc.)                          | Kg/hr | 70        | 90-100    | 110-130    | 150-180    | 200-250   |
| HIPS/ABS  | Kg/hr | 60        | 100       | 150        | 180        | 230       |
| Connecting Load                                       | HP    | 60        | 71        | 85         | 106        | 121       |
| Running Load  | HP    | 24        | 35        | 49         | 73         | 85        |
| Space Requirement<br>(LXBXH)                          | Feet  | 24x3x5    | 27x5x6    | 27x5x6     | 28x5x6.5   | 30x6x6.5  |

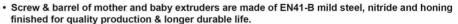
Raw material must be washed and sorted according plastic category to get mentioned production rate

- . Tungsten carbide coated screw & barrel, for high RPM machines to boost screw life.
- · AC drives from reputed brands to maintain motor speed at desired rpm.
- · Pressure transducer with buzzer system for hydraulic screen changer to detect mesh pressure. (Helps to notify labor to change screen as soon as possible)
- Accumulator power pack for hydraulic screen changer to boost hydraulic up/down speed. · Automatic hopper loader to load raw material into hopper with help of blower.
- (substitutes labor need) · Air knife, to prevent water entering into pelletizing unit and helps for moisture free pellets as an output.
- · Forced feeder, for hopper to feed low density raw material easily to boost production rate.
- · Manual die head, instead of hydraulic screen changer. (to reduce the cost of machine) (best option for clean material recyclers)
- · Barrel vent, for engineering grade material like ABS & HIPS for moisture free granules and guality output.
- · PLC based HMI control panel with touch screen display
- · Vibro shifter, to separate rejections and finished granules effortlessly.









- Optional: Tungsten carbide coated screw & barrel available, for high production machines to provide a longer durable life.
- Screw design for reprocessing & coloring application of LLDPE, HDPE, LDPE, PP, HM, ABS & HIPS etc.
- Screws are designed for specific material to get better quality for specific material while producing single category material or universal design for every material.
- Barrel has been divided into heating zones for accurate temperature control.
- Digital pyrocontrol panel for faster heating & energy saving.
- Thermocouples are provided for each heating zones for temperature control through digital temperature controllers.
- Movable motor attachment provided for both extruders main AC motor & pelletizing motor.
- Both Extruder unit is consisting of heavy & sturdy MS channel's fabricated frame and covered with CRC sheet.
- · High efficient hopper magnet provided for detect and restrict the ferrous material from the polymer.
- Screw is rotated by suitable AC motor with heavy duty helical gear box. AC motor and helical gear box are from reputed brands for both extruders.
- For both extruders, Hydraulic screen changer provided to filter molten plastic in case it contains dust
  or particles. Unique designed die attached with hydraulic screen changer of mother extruder which
  converts molten plastic into plastic lumps which removes all possible moisture and second extruders
  screen changer turns it into plastic strands after filtration. Comes along single power pack for both
  screen changers.
- Cooling tank is fabricated from stainless steel sheet, which mounted on height adjustable fabricated stand. Where guide rollers are provided to convey the strands forward towards pelletizing unit.
- Pelletizing unit fabricated from heavy angles, where peletizer is mounted which has consisting sets
  of carbide tips moving blades. Unit is driven by AC motor.

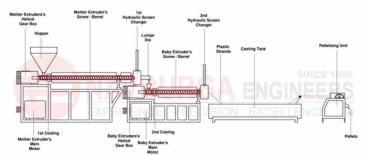


## **Application**

- · For recycling purpose of plastic wastes which contains,
- · high moisture, heavy printings and heavy contamination.
- · To recycle low density film waste without agglomeration process.
- · Material : All kind of plastic wastes

## Extras (Optionals):

- Tungsten carbide coated screw & barrel, for high RPM machines to boost screw life.
- · AC drives from reputed brands to maintain motor speed at desired rpm.
- Pressure transducer with buzzer system (for mother extruder) for hydraulic screen changer to detect mesh pressure. (Helps to notify labor to change screen as soon as possible)
- Accumulator power pack (for mother extruder) for hydraulic screen changer to boost hydraulic up/down speed.
- Automatic hopper loader (for mother extruder) to load raw material into hopper with help of blower. (substitutes labor need)
- · Air knife, to prevent water entering into pelletizing unit and helps for moisture free pellets as an output.
- Forced feeder (for mother extruder), for hopper to feed low density raw material easily to boost production rate.
- . Barrel vent, for engineering grade material like ABS & HIPS for moisture free granules and quality output.
- PLC based HMI control panel with touch screen display
- · Vibro shifter, to separate rejections and finished granules effortlessly.





| Model                                  | MOTHER B<br>Unit | ABY PLASTIC RECYCL<br>NE/MB/100/EXT | ING MACHINE<br>NE/MB/110/EXT | NE/MB/120/EXT |
|--|------------------|-------------------------------------|------------------------------|---------------|
| Article Waste<br>(PP,HDPE, LLDPE etc.) | Kg/hr            | 150                                 | 250                          | 350           |
| Film Waste<br>(LDPE,HM etc.)           | Kg/hr            | 130                                 | 230                          | 330           |
| HIPS/ABS                               | Kg/hr            | 150                                 | 250                          | 350           |
| Connecting Load                        | HP               | 109                                 | 146                          | 196           |
| Running Load                           | HP               | 53                                  | 90                           | 140           |
| Space Requirement (LXBXH)              | Feet             | 55x6x8                              | 60x6x8                       | 66X6X9        |

Raw material must be washed and sorted according plastic category to get mentioned production rate 400 kg/hr & 500 kg/hr models also available for special purpose.



# 2.3 Plastic Granules Making Machine With Die Face Cutter



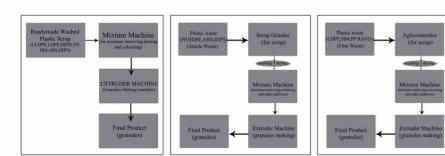
### Suitability:

Mostly suggested for virgin, next to virgin or plant waste materials. HDPE, LDPE, LDPE, BOPP FILM and PP natural.

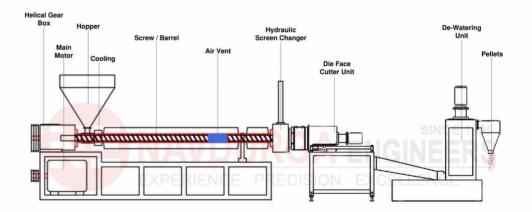
#### **Production Range:**

Production Range of 100 kg/hr to 250 kg/hr.

- Tungsten carbide coated screw & barrel, for high RPM machines to boost screw life.
- · AC drives from reputed brands to maintain motor speed at desired rpm.
- Pressure transducer with buzzer system for hydraulic screen changer to detect mesh pressure.
   (Helps to notify labor to change screen as soon as possible)
- · Accumulator power pack for hydraulic screen changer to boost hydraulic up/down speed.
- Automatic hopper loader to load raw material into hopper with help of blower. (substitutes labor need)
- · Forced feeder, for hopper to feed low density raw material easily to boost production rate.
- PLC based HMI control panel with touch screen display
- Hot air blower for 100% moisture removal and helping pellets to lead to the silo.

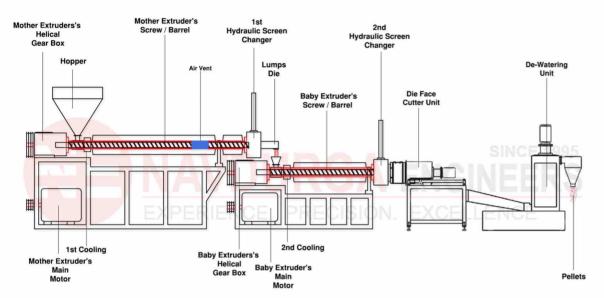


- Screw & barrel are made of EN41-B mild steel, nitride and honing finished for quality production & longer durable life.
- Optional: Tungsten carbide coated screw & barrel available, for high production machines to provide a longer durable life.
- Barrel has a air vent on outer diameter for degassing of the material processing inside.
- Screws are designed for specific material to get better quality for specific material while producing single category material or universal design for every material.
- · Barrel has been divided into heating zones for accurate temperature control.
- Digital pyrocontrol panel for faster heating & energy saving.
- Thermocouples are provided for each heating zones for temperature control through digital temperature controllers.
- Movable motor attachment provided for main AC motor.
- Extruder unit is consisting of heavy & sturdy MS channel's fabricated frame and covered with CRC sheet.
- High efficient hopper magnet provided for detect and restrict the ferrous material from the polymer.
- Screw is rotated by suitable AC motor along AC drives with heavy duty helical gear box. AC motor and helical gear box are from reputed brands.
- · AC drives are used to adjust the speed of motor according material requirements.
- Hydraulic screen changer provided to filter molten plastic in case it contains dust or particles. Die attached with hydraulic screen changer which leads molten plastic into die face cutter unit. Comes along power pack.
- Die face cutter unit is fabricated with SS 304 material. Carbide blades fitted on rotating shaft near the outer edge of screen changers backer plate.
- . Die face cutters shaft connected with AC motor and AC drive from reputed brands.
- Water supply system provided for smooth cutting process for die face cutter unit.
- De watering unit provided to remove moisture from the surface of finished pellets as die face cutting process entirely occurs in presence of water flow.
- De watering unit is completely fabricated from SS 304 and contains AC motor from reputed brand.
- · Water pump to be provided with AC motor.





# 2.4 Two Stage Plastic Recycling Machine With Die Face Cutter



### Suitability:

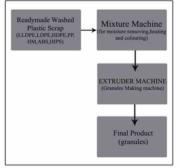
Mostly suggested for virgin, next to virgin or plant waste materials. HDPE, LDPE, BOPP FILM and PP natural.

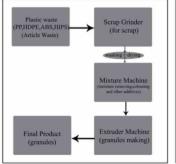
#### **Production Range:**

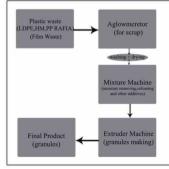
Production Range of 100 kg/hr to 500 kg/hr.

- . Tungsten carbide coated screw & barrel, for high RPM machines to boost screw life.
- AC drives from reputed brands to maintain motor speed at desired rpm.
- Pressure transducer with buzzer system for hydraulic screen changer to detect mesh pressure.
   (Helps to notify labor to change screen as soon as possible)
- · Accumulator power pack for hydraulic screen changer to boost hydraulic up/down speed.
- Automatic hopper loader to load raw material into hopper with help of blower. (substitutes labor need)
- Forced feeder, for hopper to feed low density raw material easily to boost production rate.
- · PLC based HMI control panel with touch screen display
- Hot air blower for 100% moisture removal and helping pellets to lead to the silo.

- Screw & barrel are made of EN41-B mild steel, nitride and honing finished for quality production & longer durable life.
- Optional: Tungsten carbide coated screw & barrel available, for high production machines to provide a longer durable life.
- Barrel has a air vent on outer diameter for degassing of the material processing inside.
- Screws are designed for specific material to get better quality for specific material while producing single category material or universal design for every material.
- Barrel has been divided into heating zones for accurate temperature control.
- · Digital pyrocontrol panel for faster heating & energy saving.
- Thermocouples are provided for each heating zones for temperature control through digital temperature controllers.
- · Movable motor attachment provided for main AC motor.
- Extruder unit is consisting of heavy & sturdy MS channel's fabricated frame and covered with CRC sheet.
- High efficient hopper magnet provided for detect and restrict the ferrous material from the polymer.
- Screw is rotated by suitable AC motor along AC drives with heavy duty helical gear box. AC motor and helical gear box are from reputed brands.
- · AC drives are used to adjust the speed of motor according material requirements.
- Hydraulic screen changer provided to filter molten plastic in case it contains dust or particles. Die attached with hydraulic screen changer which leads molten plastic into die face cutter unit. Comes along power pack.
- Die face cutter unit is fabricated with SS 304 material. Carbide blades fitted on rotating shaft near the outer edge of screen changers backer plate.
- · Die face cutters shaft connected with AC motor and AC drive from reputed brands.
- Water supply system provided for smooth cutting process for die face cutter unit.
- De watering unit provided to remove moisture from the surface of finished pellets as die face cutting process entirely occurs in presence of water flow.
- De watering unit is completely fabricated from SS 304 and contains AC motor from reputed brand.
- · Water pump to be provided with AC motor.











# 3.1 Plastic Mixture (For Mixing Pigment and Masterbatch)

- · Heavy duty bearing housing provided for sturdy operation and longer life.
- · Manual opening at raw material feeder mouth.
- Heavy fabricated channel stand to be provided for vibration free performance.
- · Simplified discharge system to discharge raw material to be provided for simple operation.
- · Driven by Reputed brand motor.
- · Easy to operate.
- · Less Maintenance.

#### Extras (Optionals):

- Thermocouple sensor to monitor the temperature of the drum.
- Auto on/off system according batch time with buzzer
- · Pneumatic system at discharge spot.
- · Stainless steel coating inside drum.
- · Pneumatic system on raw material feeder mouth to tighten the mouth.

|          | PLASTIC MIX         | TURE MACHINE            |                       |
|----------|---------------------|-------------------------|-----------------------|
| Model    | Batch Time<br>(min) | Connecting Load<br>(HP) | Production<br>(KG/HR) |
| NE/MX/35 | 15                  | 20                      | 140                   |
| NE/MX/45 | 15                  | 25                      | 180                   |
| NE/MX/50 | 15                  | 30                      | 200                   |
| NE/MX/60 | 15                  | 40                      | 240                   |
| NE/MX/75 | 15                  | 50                      | 300                   |

Batch time can be different than mentioned according material catergories +/- 1-2 min

Production rate per bour can be diffrent after taking material discharging and inserting process in account +/-25-30 kg



# 3.2 Plastic Scrap Grinder (For Srapping Article Waste)



- · Heavy duty bearing housing provided for sturdy operation and longer life.
- · Fixed Blade adjustment system.
- · Heavy fabricated channel stand to be provided for vibration free performance.
- · Driven by Reputed brand motor.
- · Easy to operate.
- · Less Maintenance.
- · Optional: blower to convey plastic flakes from output spot to collection spot.





|           |                      | PLASTIC SCRAP GR         | INDER                 |               |                       |
|-----------|----------------------|--------------------------|-----------------------|---------------|-----------------------|
| Model     | Blade Size<br>(Inch) | Rotating Blades<br>(Nos) | Fixed Blades<br>(Nos) | Motor<br>(HP) | Production<br>(Kg/Hr) |
| NE/SG/12" | 12                   | 9                        | 4                     | 10            | 50-60                 |
| NE/SG/15" | 15                   | 9                        | 4                     | 15            | 80-100                |
| NE/SG/18" | 18                   | 9                        | 4                     | 20            | 150-200               |
| NE/SG/24" | 24                   | 9                        | 6                     | 30            | 250-300               |

Production rate can be different +/- 25-30 kg ,depends on density of the material

# 3.3 Agglomerator Machine (For Srapping Film Waste)

| AGGLOMERATOR MACHINE |                     |                         |                             |  |  |
|----------------------|---------------------|-------------------------|-----------------------------|--|--|
| Model                | Batch Time<br>(min) | Connecting Load<br>(HP) | Production<br>(KG per batch |  |  |
| NE/AG/28"            | 10-15               | 30                      | 35-40                       |  |  |
| NE/AG/30"            | 10-15               | 40                      | 40-45                       |  |  |
| NE/AG/32"            | 10-15               | 50                      | 50-55                       |  |  |
| NE/AG/36"            | 10-15               | 60                      | 60-65                       |  |  |
| NE/AG/40"            | 10-15               | 75                      | 75-85                       |  |  |

Batch time can be difffrent than mentioned according material catergories +/- 1-2 min

Production rate per hour can be diffrent after taking material discharging and inserting process in account +/-25-30 kg



- · Heavy duty bearing housing provided for sturdy operation and longer life.
- · EN hardened series material blades provided.
- · Heavy fabricated channel stand to be provided for vibration free performance.
- · Simplified discharge system to discharge raw material to be provided for simple operation.
- · Driven by Reputed brand motor.
- · Easy to operate.
- · Less Maintenance

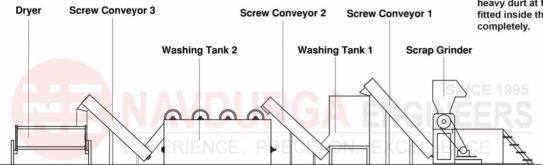
- · Thermocouple sensor to monitor the temperature of the drum.
- · Auto on/off system according batch time with buzzer
- · Pneumatic system at discharge spot.
- · Stainless steel coating inside drum.





# 3.4 Automatic Washing Line

- · Washing line is completely fabricated using stainless steel 304 grade.
- · It contains scrap grinder machine to convert plastic article waste into plastic flakes.
- Screw conveyor provided to convey flakes to the washing tank 1. Where raw material washed in vertically
  designed tank. After first wash, raw material conveyed to next washing tank which is horizontally designed.
- It contains several rotors to lead raw material forward. Main application of horizontal tank is to collect
  heavy durt at the floor of washing tank and then its conveyed out of the process with screw conveyor
  fitted inside the tank. Washed material then dropped into the dryer machine which dries the material
  completely.





# **Suitability / Production Range**

- Automatic washing line is mostly suggested for article plastic. (film waste plastic will get less production due to its density)
- · Production Range of 250 kg/hr to 500 kg/hr.

## 3.5 Dust Cleaner Machine (To clean dry dust from plastic bags)

- · Heavy duty rotor provided fabricated by MS thick pipe and sheets.
- · Heavy fabricated channel stand to be provided for vibration free performance.
- · Driven by Reputed brand motor.
- · Easy to operate.
- · Less Maintenance.

# **Application**

Dust cleaner machine is used to clean the plastic film waste. It removes the dry dust from the surface of plastic bags. (ex. Ldpe, Ildpe, pp raffia etc.)



## **Head Office & Production Facilities**

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