

 **MAXIMA**  
**CENTRIFUGE CONTROLS**  
AUTOMATION, CONTROLS, SPARES & SERVICES

## Initiatives & Practices

- Creativity with Satisfaction
- To Become Dexterous
- Withstanding Quality Measures
- Stringent Productivity
- Precision in Manufacturing
- Continuous Improvements



Works Add.: Unit 46, Pl.#C-11, NICE, Road 'A', Satpur MIDC, Nashik - 422007, M.S., India  
Regd. Add.: 7, Annapurna Apt., Opp. HPT NBT College, College Road, Nashik - 422005  
Phone: +91 253 2362244 | Cell : +91 94222 70 775, +91 94222 53 775  
Web: [www.maximacentrifugeindia.com](http://www.maximacentrifugeindia.com) E-mail : [maximacentrifuge2244@gmail.com](mailto:maximacentrifuge2244@gmail.com)

# About us

We are Manufacturer and Supplier of Equipments required for Sugar Centrifugal Automation and spares since 14 years. We undertake following works.

- Manufacturing and supply of new Pneumatic Operated Plough - Sugar discharger suitable to any make and type of flat bottom centrifugal machine in 8 different Models.
- Manufacturing of new Masecuite Thickness Controller in 5 different models Electro-Pneumatically operated / Electro-Magnetically operated for Batch type centrifugal machine.
- Manufacturing and Trading of Equipments and Spares for Automation System for any Batch type centrifugal machines i.e. Pneumatic Cylinders, Molasses Separator, Lifting Hood, Masecuite Thickness Controller, Control Valves, Solenoid Valves, Water Spray Nozzles, Pneumatic Fittings etc.
- Modifications, Repairing & reconditioning of Old Plough - Sugar Dischargers of any batch type centrifugal machine.
- Special designs of Nozzles which covers 30° to 140° Spraying Area in 8 different designs as per applications.
- Automation system of any make batch type centrifugal machine.
- Manufacturing of Pneumatic Break system suitable to your machine design like drum type or disk type break arrangement.
- Transient Heaters for Continuous centrifugal machines.
- Super heated wash water system, its spares and controls.
- Rewiring of any fully automatic control panel.
- Trouble shutting, faultfinding and repairing work

## Infrastructure

We have in-house designing & manufacturing facility to produce the world-class products that are provided with guaranteed performance in written. The manufacturing unit of the company is spread over 2000 square feet and is supported by 10-15 personnel. The unit is equipped with sophisticated tools and devices enabling us to meet the requirements of the clients exactly as per the specifications given by them.

## Team

Our personnel having in-depth knowledge and industry experience are empowered to come up with only the best creations. We empower our employees & create an environment that enables them to achieve functional excellence. They work in close co-operation and thus, have made it possible for us to serve the clients in the best possible way.

## Quality Policy and Our Specialization

We are committed to our tradition of engineering excellence. Along with that, innovation with incessant quality measures, precision in manufacturing & continuous improvements increases our dexterity to serve the buyers with quality products. Sticking to stringently controlled production processes.

## Why us

We are only single dexterous entity in manufacturing the Quality Plough Sugar Dischargers in INDIA in various designs. ♦ We ensure that our products are of the highest quality. Plough Sugar Dischargers is the HEART of the Sugar Batch Centrifugal Machines; we are the best doctor for it. We assure about all our products should be Best One; to its advanced design, to its long life durability & interchangeability due to the precision in workmanship in written guaranty.

# PLOUGH - SUGAR DISCHARGER - MODEL NO. 07

## Salient features proves its universality

- Model No. 07 featured as this unit Suit to any sugar centrifugal machine's design charging capacity in Kgs. i.e. 500 / 700 / 1000 / 1250 / 1500 / 1750 / 2000 / 2200 Kgs. of any manufacturer by changing the stroke of cylinders & respectively changes in dimensions of Shaft, Piston & Scrapper Height & casing guide pipe.
- This Model No. 07 is Medium Duty; Very Sturdy to its application for above said all capacities of centrifugal machines of any manufacturer.
- It has a very special feature of ZERO Backlash when scrapper is at its Plough-In Position; so it remains lesser sugar grains in the basket.
- Their shaft is keyless & with increased bore size; so its strength of pulling up & pushing are increased. Reduces Cycle Timing.
- It has provided with the Poly Urethane Seals for pneumatic actuations which having very durable & long life.
- Its Swiveling OR In-Out Arrangement has provided at the Top Side of Plough unit.
- Its Scrapper can be set / positioned at sequential any position out of 360 Degrees.
- Its Plough body can be set at sequential of 22.5 out of 360.
- It scraps the sugar layer very smoothly. In this new special design we have applied considering all positive & negative points here before.
- With this design we can use Anti-Clock wise In-Out operation & also Clock wise In-Out operation of Scrapper of Plough.
- It has very lesser maintenance work through out couple of crushing seasons.



## Plough Instructions for User /Operator

- Pay attention that plough Scrapper should be Swivel In only at 50 RPM.
- Keep minimum 3mm. & maximum 6mm. Distance / Gap between Screen & Scrapper.
- Fill Lubricants oil / Grease at friction surface as instructed points daily or weekly.
- Clean scrapper shaft as well as Up-Down Cylinder shaft wiped by hot water.
- Do not damage surface of plough shaft.
- Air Pressure should be Minimum 6.5 to 7 Kgs/cm<sup>2</sup>
- Pay attention & immediate remedy of abnormal working / operation.

# PLOUGH - SUGAR DISCHARGER - MODEL NO. 01

## Salient Features

- Model No. 01 featured as this unit Suit to sugar centrifugal machine's design charging capacity in Kgs. i.e. 500 / 700 / 1000 / 1250 Kgs. of any manufacturer by changing the stroke of cylinders & respectively changes in dimensions of Shaft, Piston, Scrapper Height & casing guide pipe.
- With this design we can use Anti-Clock wise In-out operation of Scrapper of Plough.
- This Model No. 01 is Light Duty & Very Sturdy to its application for above said capacities of centrifugal machines.
- We have provided the Phosphorous Bronze Key for Vertical sliding & it featured as we can use it dual sides. So its life is more than other.
- It scraps the sugar layer very smoothly as we have modified the old design considering all positive & negative points before here.
- It has very lesser maintenance work through out Three crushing seasons.
- Near above 365 Nos. of Ploughs are working satisfactorily in the market of INDIA & Abroad.



# PLOUGH - SUGAR DISCHARGER - MODEL NO. 04

## Salient Features

- Model No. 04 featured as this unit Suit to any sugar centrifugal machine's design charging capacity in Kgs. i.e. 700 / 1000 / 1250 / 1500 / 1750 / 2000 / 2200 Kgs. of any manufacturer by changing the stroke of cylinders & respectively changes in dimensions of Shaft, Piston, Scrapper Height & casing guide pipe.
- With this design we can use Anti-Clock wise In-out operation of Scrapper of Plough.
- This Model No. 04 is Heavy Duty & Very Sturdy to its application for above said capacities of centrifugal machines.
- We have provided the external vertical cylinder; its use as if external cylinder got problem than also you can use the internal cylinder for up-down operation. There is not necessary to stop the centrifugal machine for more time.
- We have provided the Phosphorous Bronze Key for Vertical sliding & it featured as we can use it dual sides. So its life is more than other.
- It scraps the sugar layer very smoothly as we have applied new special design considering all positive & negative points before here.
- It has provided the Poly Urethane Seals are having very long life.
- It has very lesser maintenance work through out Four crushing seasons.
- Near above 415 Nos. of Ploughs are working satisfactorily in the market of INDIA & Abroad.



# PLOUGH - SUGAR DISCHARGER - MODEL NO. 08

## Salient Features

- Model No. 08 featured as this unit Suit to any sugar centrifugal machine's design charging capacity in Kgs. i.e. 500 / 700 / 1000 / 1250 / 1500 / 1750 / 2000 / 2200 Kgs. of any manufacturer by changing the stroke of cylinders & respectively changes in dimensions of Shaft, Piston, Scrapper Height & casing guide pipe.
- With this design we can use Anti-Clock wise In-out operation of Scrapper of Plough.
- It has a very special feature of ZERO Backlash when scrapper is at its Plough-In Position; so it cleans all sugar grains from the basket screen.
- Its Scrapper can be set / positioned at sequential all 360 Degrees.
- This Model No. 08 is Medium duty Model; Very Sturdy to its application for above said all capacities of centrifugal machines of any manufacturer.
- Their shaft is keyless & with increased bore size; so its strength pulling up & pushing are increased.
- It has provided the Poly Urethane Seals are having very long life.
- It scraps the sugar layer very smoothly as we have applied new special design considering all positive & negative points before here.
- It has very lesser maintenance work through out couple of crushing seasons.



# PLOUGH - SUGAR DISCHARGER - MODEL NO. 02

## Salient Features

- Model No. 02 featured as this unit Suit to sugar centrifugal machine's design charging capacity in Kgs. i.e. 1500 / 1750 Kgs. of any manufacturer by changing the stroke of cylinders & respectively changes in dimensions of Shaft, Piston, Scrapper Height & casing guide pipe.
- With this design we can use Anti-Clock wise In-out operation of Scrapper of Plough.
- This Model No. 02 is Medium Duty & Very Sturdy to its application for above said capacities of centrifugal machines,
- We have provided the Phosphorous Bronze Key for Vertical sliding & it featured as we can use it dual sides. So its life is more than other.
- It scraps the sugar layer very smoothly as we have modified the old design considering all positive & negative points before here.
- It has very lesser maintenance work through out Three crushing seasons.
- Near above 19 Nos. of Ploughs are working satisfactorily in the market of INDIA.



# Massecuite Thickness Controller - Electro-Pneumatic other name "Charge Regulator"

## Salient Features

- Electro-Pneumatically Operated.
- Imported Pneumatic Single Acting Compact Cylinder with provision of built-in Solenoid Valve 230 VAC option 24 VDC.
- Positive senses & frequent cut off signal to PL Controller with minimum area of 1 – 2mm. Touch.
- Very sensitive, easily adjustable for its desired Massecuite level
- Maintenance free, long working capability in running season
- Provision of automate by Limit switch or NO or NC & VAC or VDC Proximity Switch.
- Shaft, Sensing element & operating striker pins are in SS202.
- Poly Urethane seals in air cylinder for long lasting operations.
- Provision of wiper seal to do not enter foreign particles in housing.
- Provision of Teflon bushes at housing for trouble free operation through out life.
- All MS parts are powder coated.
- Positively tested at our end.
- So it is very durable for 20years.

## Different Models Suit to Various Batch Centrifugal Machines



# Special designs of Nozzles which covers 30 to 140 Spraying Area in Eight different designs.

## Model No. NZ 701



- We are introducing first time in the world very special design of nozzle which covers maximum spraying area which is 120°-140° degrees.
- This can be used in Any make Continuous or Batch type Sugar Centrifugal Machines, Mud Oliver, Condenser, Water cooling towers & many other purposes.
- It operates as Two way (Double) Eye shape type spray on object.
- Used for maximum area covering spray.
- Port : 1/8" BSP. , 1/4" BSP., 3/8" BSP., 1/2" BSP., 3/4" BSP. & 1" BSP. Male or Female ports.

Materials : Stainless Steel 304 or Brass Constructed.

## Salient Features

## Model No. NZ 101



- It sprays 70-90 degrees on object in Whirl type spray.
- Used for old Batch type Centrifugal Machines.
- Port : 1/4" BSP. & 3/8" BSP.
- Brass Constructed.
- Optional with adjustable needle

## Model No. NZ 201



- It sprays 60-80 degrees & operates as Whirl type spray on object.
- Used for Small quantity spray.
- Used for Oliver Mud cleaning & also for Continuous Centrifugal Machines.
- Port : 1/4" BSP. & 3/8" BSP.
- Brass Constructed.

## Model No. NZ 301



- It sprays 50-70 degrees on object in Spoon type spray on object.
- Used for WIL make & all Batch type Centrifugal Machines.
- Port : 1/4" BSP. & 3/8" BSP.
- Brass Constructed.

## Model No. NZ 401



- It sprays 70-90 degrees on object in Whirl type spray on object.
- Used for NHEC make & all Continuous Centrifugal Machines.
- Port : 1/4" BSP. & 3/8" BSP. F.
- Brass Constructed.

## Model No. NZ 501



- It sprays 40-50 degrees on object in Eye shape spray.
- Used for Thyssen Krupp, NHEC & FCB KCP Batch type Centrifugal Machines.
- Port : 1/4" BSP., 3/8" BSP. & 1/2" BSP.
- Stainless Steel 304 Constructed

## Model No. NZ 601

- It sprays 40-50 degrees on object in Whirl type spray on object.
- It has provided Spiral Needle inside.
- Used for Small quantity spray.
- Used for WIL Continuous Centrifugal Machines.
- Port : 1/4" BSP. & 3/8" BSP. F.
- Brass or SS 304 Constructed.



# OTHER CUSTOMISED DESIGNS OF PLOUGH SUGAR DISCHARGERS FOR VARIOUS SUGAR BATCH CENTRIFUGAL MACHINES FOR OUR PRESTIGIOUS CLIENTS



MODEL NO. 5053



MODEL NO. 3023



MODEL NO. 5011



MODEL NO. 4053

## OTHER COMPONENTS & EQUIPMENTS

