



Manufacturer & exporter of
Plastic Rotational
Moulding Machines & Moulds



ASH WIN
ENGINEERS



About us

ASH WIN Engineers, having made its modest beginning in 1992 at Ahmedabad, India. Which is now undisputed player in manufacturing and export of State of the art full range of Rotomolding machines, , Rotational Moulds for almost all Roto applications and allied machines required to complete Rotomolding project.

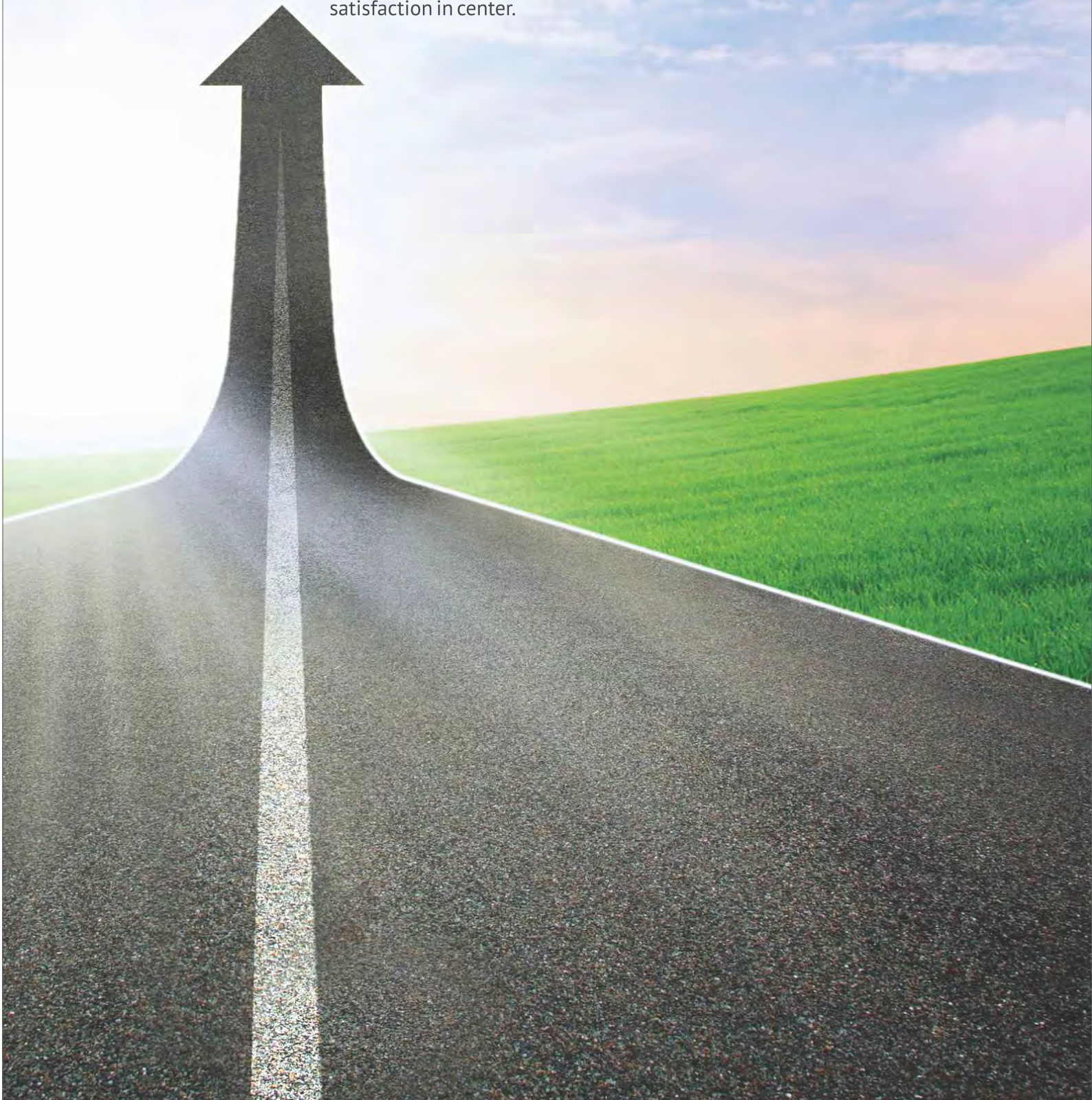
The promoters are visionary engineers who are possessing strong technical as well as management back ground with sound experience in manufacturing of all types of Plastics Processing machines.

ASH WIN is having its systematic and well organized works spraed across total more than 30,00 sq. ft area with all manufacturing facilities and good infracture at Naroda,Ahmedabad, which is just 10 miles from Ahmedabad Airport and around 400 Kms from Mumbai, INDIA. City is having International Airport is globally well connected with direct flights to many leading cities / countries world wide.



Vision

We have futuristic vision to provide complete solution to Rotomolding Industry with continuous advancement through our well experienced & qualified team of designers, technicians & skilled workers headed by technocrats who constantly strives to continuously upgrade product & services with customer satisfaction in center.





Reliability

The company has proven backbone of consistent business growth rate of average 25 to 30 %. It is fact that majority of our customers have never been declined in their business. Majority of our customers whenever expanding or diversifying have repeatedly orders which is ample proof of customer satisfaction. Contribution of repeat business is 40 to 50 % in total business. The company is helping the customers by providing indepth details of Rotomolding project ,sourcing man power, operators, other encilliary equipments, and accessories so as to compelte the Rotoproject. We depute our Qualified and experiences team to help customer to guide on factory area, arrangements of machines, piping , electrical, cooling arrangements, raw materials and finished goods etc at site.

The company enjoys its credibility as organized Engineering group with clear identity and foothold in its market segment. With its focused effort and team approach, the company has developed the Full range of Rotomolding machines so as to precisely meet customer's requirement suiting to investment budget. Which intern , make the customer's project most viable with minimum payback period of Investment. Developed models are much polular and accepted in highly sensitive and competitive market at very effordable prices. Which has brought company with clear foothold in the domestic Rotomolding market.

Global Footprint

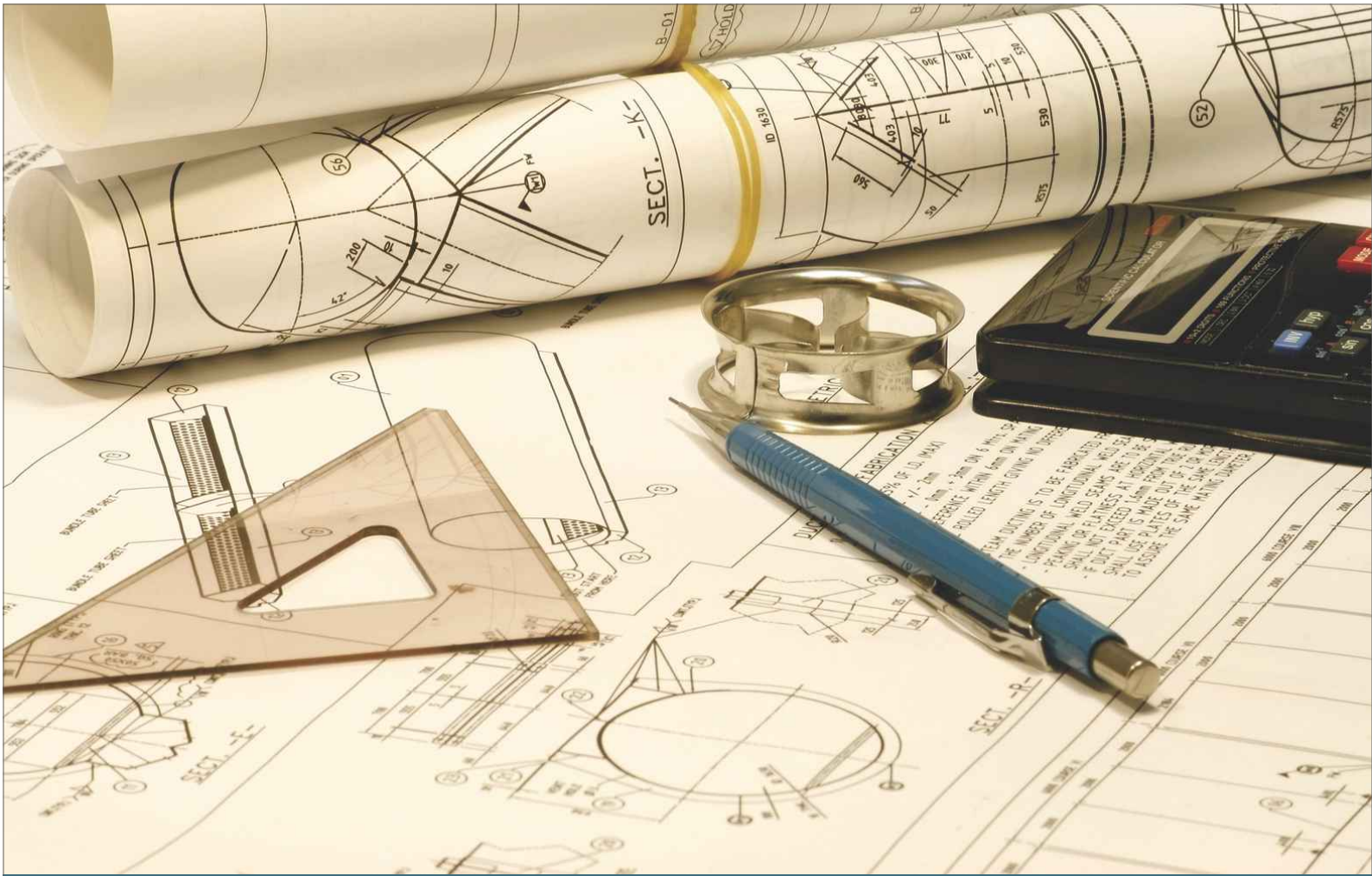
With its credibility and foothold in domestic market, technology driven company, good quality, increased fuel efficiency, sophistication and automation as per requirements, tradition of customer's support have become the hallmark of ASH WIN . These has positioned company's products on global platform which are competing with the other long established players.

ASH WIN 'S export share has been reached across more than 35 countries world wide. ASH WIN's exports have been keeping on multiplying every year after its first supply and execution of complete Rotomolding project in Nigeria. Then the company has never looked back. ASH WIN now enjoys successful and satisfied customers base across the globe. CE compliant machines have been designed, manufactured and sold to countries like Germany & Denmark; it's a major breakthrough, supplying to the very source of such machines. The machines are also spread across Ethiopia, Kenya, in East Africa, Lagos, KANO, Ghana, Egypt in west Africa, Kuwait, Qatar, Riyadh, U.A.E., Jordan & Yeman, in the Gulf countries. Bangladesh, Sri Lanka as closer home & to Australia, Cyprus, Germany, Denmark etc. which will keep on increasing with pending orders.

**EXCELLENCE IN EXECUTING TURNKEY PROJECTS OF ROTO MOULDING
WITH GLOBAL FOOTPRINT ACROSS MORE THAN 30 COUNTRIES SINCE**

- Denmark
- Germany
- Australlia
- Cyprus
- Riyadh
- Jiddah
- Ghana
- Jordan
- Yeman
- Dubai
- Abudhabi
- Kenya
- Nigeria
- Tanzania
- Egypt
- Congo
- South Africa
- Bangladesh
- Srilanka
- Malawi
- Sudan
- Zambia
- Burundi
- Uganda
- Turkey
- Oman





Research and Development

Research and development have always played a prominent role in our Organisation. Thanks to design team for innovation and the constant enhancement of our products, In a short span of last 8 years our company has become a recognized and competitive player in the market of latest and high-tech Rotomolding machines and Moulds. This is the power of our development team .

The main objective of our development is to produce new and innovative solutions founded on the latest technological research findings, which will be popular as user friendly products.

In order to accomplish these objectives, we pay special attention to research and development. To encourage business development, we have established a structure that enables us to support innovative activities to the maximum extent. We provide our experts with all the means and facilities (time and resources) they need to fully implement their ideas.

Our primary goal is to continue to incorporate cutting-edge technological innovations into our all products and services , which can guarantee us a major market advantage. We believe that all this can be achieved through innovation and research.

Commitment To Quality

We are committed to delivering high quality products which intern is a result of quality approach and quality systems established at each stage of Organisation process chain; which fully meets our customers' needs for quality assurance (QA). We aim to offer a flexible approach, focused on customers' needs for quality, timeliness and cost.

We have team of Engineers who ensure the quality standards at each stages of production and process ; they are provided with all facilities, resources and Instruments to check and ensure quality.

We place great emphasis on product quality. Our products are manufactured to the highest standards and face stringent, comprehensive quality control testing during multiple stages of production, and upon completion.





After Sales- Service Support

Company's Head office and works has been located at prime Industrial Zone Naroda, Ahmedabad, India, After sales service and support has been effectively managed by our service department based at Naroda, Ahmedabad which is comprising of a dedicated team of well qualified and experienced Engineers & professionals. Experienced technical team for timely and satisfactory installation and commissioning of complete Rotational Molding project at any location across Globe The team is ready to help our customers with their prompt response and solutions.

Strengths

- ✦ Situated in prime & developed industrial Zone in Ahmedabad, we have full-fledged manufacturing unit with all required manufacturing facilities.
- ✦ A team of more than forty dedicated Technical personnel including qualified & experienced Designers, Engineers, & skilled technicians.
- ✦ Successfully executed Turnkey Rotomolding project at various locations in India and at many locations world wide.
- ✦ Designed & delivered more than 10,000 Nos Rotational Moulds for almost all Rotomolded applications. Company is regularly supplying critical Moulds to European continents.
- ✦ Export to more than 35 countries including Denmark, Germany, Cyprus, Australia, Zambia, Ghana, UAE, KSA. etc,
- ✦ CE Certified machines have been designed, manufactured and sold to countries like Germany & Denmark; it's a major breakthrough, supplying to the very source of such machines.
- ✦ Experienced technical team for timely and satisfactory installation and commissioning of complete Rotational Molding project at any location across Globe
- ✦ Export share is increasing in range of 30 to 60 % of company's total turnover.
- ✦ Company has built up a reputation that is backed by its reliability, quality and customer's satisfaction.
- ✦ ASH WIN has been evolved as a reputed and reliable company to set up complete Rotomolding project at any place around the world.
- ✦ It has emerged as a solution provider company and not only just machinery & Moulds supplier company.



Rotomoulding Process

1 The mold or cavity is filled with a predetermined amount of polyethylene powder, such as Equistar Microthene powders. This is called "charging the mold."

3 The charged mold is placed in an oven where it is heated and simultaneously rotated around two axes in planes at right angles to each other.

5 When all the powder has fused into a homogenous layer on the walls of the mold cavity, a combination of air and water is used in a cooling chamber to cool the mold slowly. This helps maintain the part's dimensional stability.

Instructions

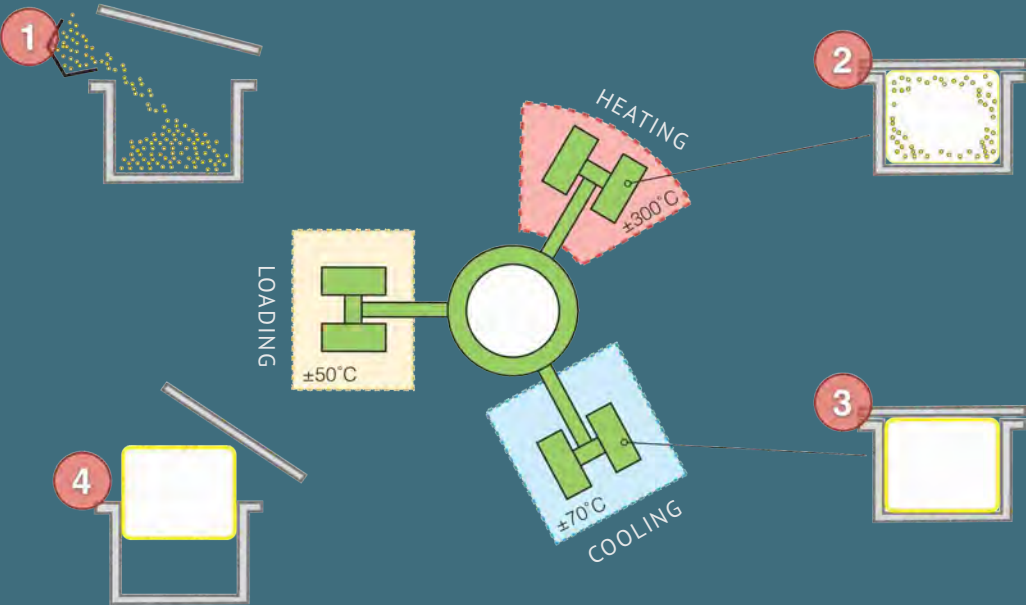
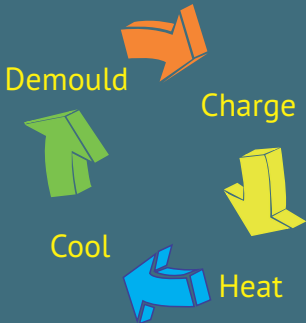
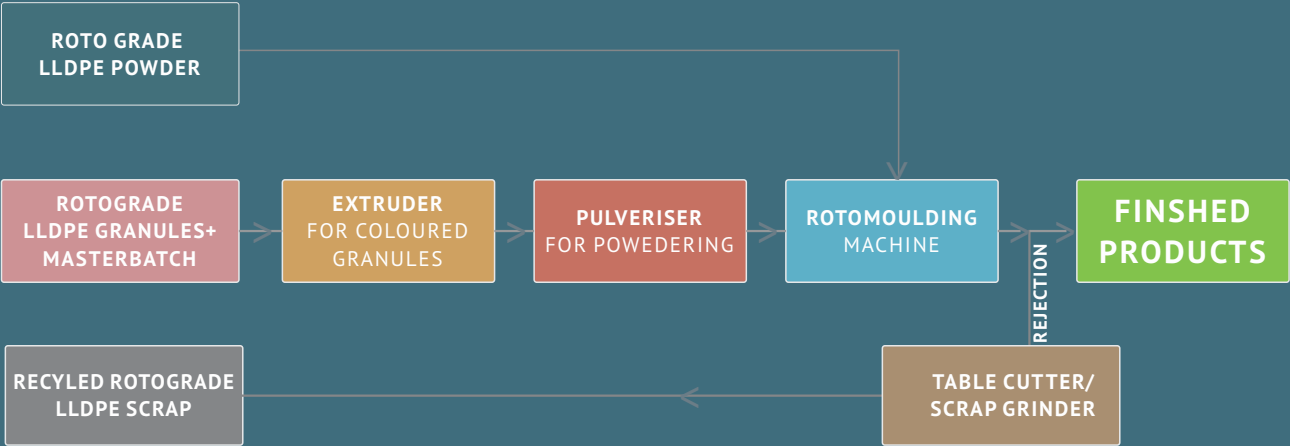
Before the molds are recharged and steps one through six repeated, it is important to be sure no moisture is on the inside of the mold.

2 The mold halves are secured together by a series of bolts or clamps. For totally enclosed pieces, the entire mold is made of heat-conductive metal. When one or both ends of the piece are open, heat-insulating covers are used to close the mold.

4 During the heating/rotation cycle the resin melts, fuses and then takes on the shape of the mold being used to form the hollow object.

6 The molds are removed from the cooling chamber, opened and the finished parts removed. The mold is then readied for the next cycle. Before the molds are recharged and steps one through six repeated, it is important to be sure no moisture is on the inside of the

Rotomoulding Process Chart



Raw material for Rotational Molding

LLDPE (Linear Low density Polyethelene) / MDPE (Medium density Polyethelene) / HDPE (High density Polyethelene) are being used with density of 0.92 to 0.95 gms/ Cm cube and Melt Flow Index in the range of 3 to 4.5 gm per 10 minutes. To produce the good quality water tanks by Rotational Molding, the material should have following properties.

- Good mechanical strength.
- Good material stability over a wide range of temperature and cycle time.
- Good resistance over warpage.
- Consistency in Shrinkage at least 2.5 % or slightly more.
- High ESCR (Environmental stress crack resistance)

Other Ingredients

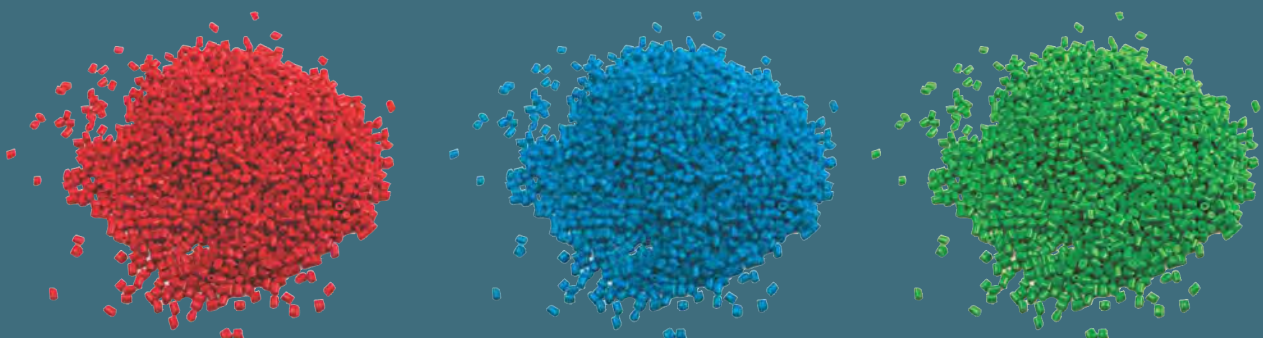
The original LLDPE granules are of natural colour which have to be converted in to either black, white, blue or other colours as per requirement of final product. To produce the coloured granules , basic LLDPE granules have to be mixed with colour concentrate which are called as master batches.

These master batches are readily available in market which are to be added alongwith LLDPE.

The master batch should be of grade which is LD based. The master batch with antioxidants are more preferred. Anti oxidants protects the material from oxidation during the molding process which helps to avoid the pin holes on surface of finished product.

Incase of black master batch, carbon contents are very important. Carbon contents act as UV stabilizer. It helps to improve the life of tanks if tanks are exposed to sunlight for longer period and to avoid the crack on tanks.

Some other common additives like flame retardants, anti static agents, foaming agents, are also used as per requirements.



Advantages of Rotational Molding

- Low Investment in project compared to other plastics projects.
- Easy and operator friendly process.
- Low tooling costs.
- Development of new products is faster and economical.
- Mfg of Sheet metal moulds is faster and cheaper.
- Uniform wall thickness of products.
- Comparatively low skilled staff and operators required.
- Easy and practically feasible for insertion of metal parts.
- Offers great business potential in many untapped segments.
- Great possibilities to develop products in newer application.
- Stress free products as no plastics melt or pressure involved.
- Most suitable for hollow and large volume articles.
- Economical process for short run and R &D purpose.



Product Range

Complete range of Rotomolding machines and All types of Rotomoulds.

- ✦ Independent FOUR arm Bi axial machines.
- ✦ Fixed Turret 4/3 arm Bi axial machines.
- ✦ Multi station Shuttle Rotomolding machines.
- ✦ Rock N Roll Rotomolding machines.
- ✦ Rotational Moulds.
- ✦ Microfine Pulverising system.
- ✦ Extrusion lines for Colouring, reprocessing Granules.
- ✦ High speed Mixer
- ✦ Solid Granulators
- ✦ Agglomerator
- ✦ Screen Vibro.
- ✦ Encillery Equipments & Optional items

Over the long tenure of more than 15 years, ASH WIN has been evolved as a reputed and reliable company to set up complete Rotomolding project at any place around the world. It has been emerged as a solution provider and not only just machinery & Moulds supplier company.







Independent Four Arm Bi Axial Machines

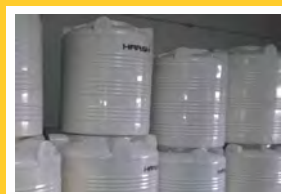


Salient Features

- OVEN CHAMBER: Oven panel has been from Insulated from 1.5 mm thick CRCA sheet, sandwiched type by using car wool and wire mesh.
- Oven doors operated electrically through Geared motor and rack and pinion drive.
- Imported Italian make reliable Auto Ignition type Burner suitable for Gas/ Kerosene/ diesel.
- Chamber is equipped with high velocity re- circulation blowers for fast heat transfer. Hexagonal shaped chamber gives air guidance and economical energy consumption.
- Most efficient in Fuel & energy consumption compared to other types of machines.
- Very consistent product quality due to smooth Bi-axial rotation,
- Uniform heating of the mould with forced air circulation in heating chamber. At the base Indexing motor provides controlled indexing of motion for arms without jerks..
- Uniform distribution of material hence possible to produce tank with lesser weight.
- Best compatibility in market due to lowest production cost per tank.
- Lowest rejection rate due to sound & proven technology
- Flexibility to produce double & triple layer tanks due uniform distribution of material.
- AC variable drives of reputed make for all Minor & major axis's for minute & accurate speed control
- Powder coated electrical control panel with dust proof construction & with all switch gears of either imported / highly reliable.
- Control panel with dust proof construction. Complete with variable speed AC drives capable of smoothly adjusting the speed of AC motors in either direction and having all necessary self diagnostic features Indication and annunciation system for ease of operation.
- AC drives have in built protection features against over load, short circuit, over voltage, for safety of AC motors.

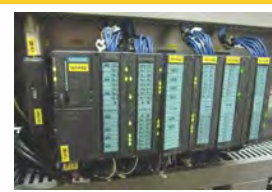
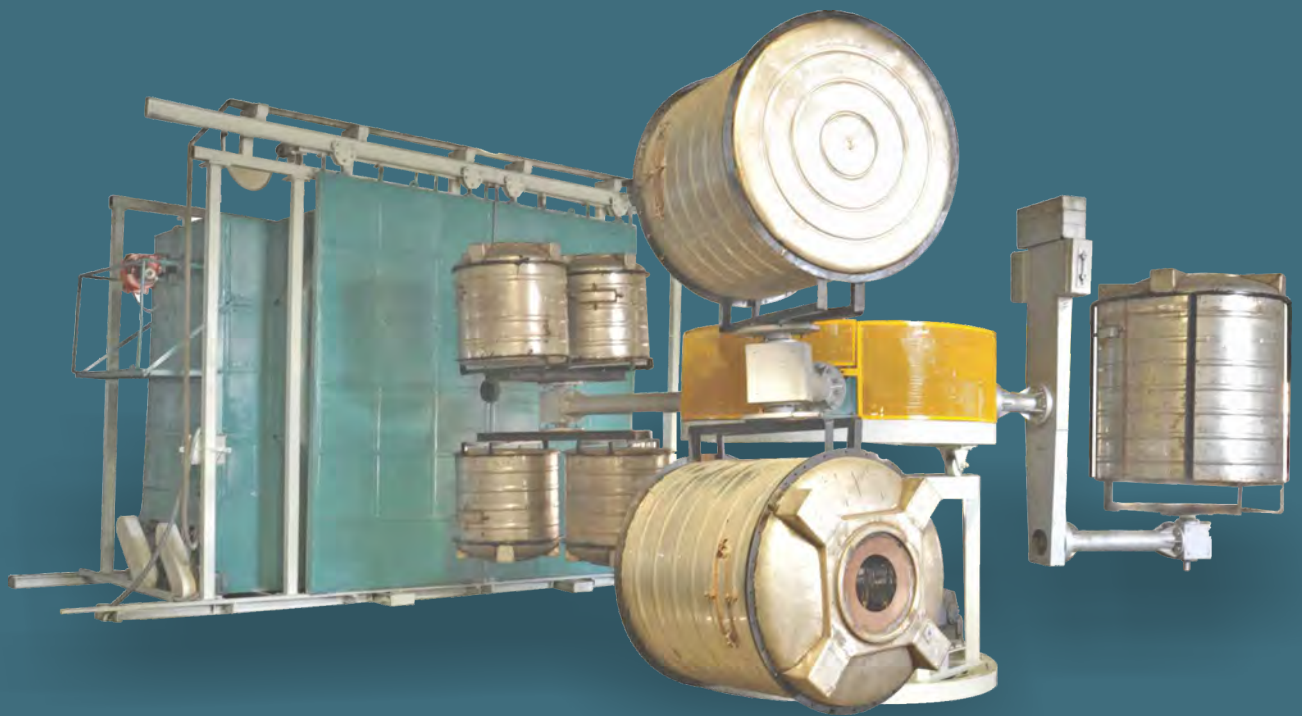
Technical Specification

Particular	Unit	AEBI -ID-3000	AEBI -ID-5000	AEBI -ID-7500	AEBI -ID-10000
Oven chamber size	Mtr	3.5x 2.8 x 3.5	3.7 x 2.9 x 3.7	4.2 x 3.6 x 4.2	4.8 x 4 x 4.8
Fuel		Diesel / Gas	Diesel / Gas	Diesel / Gas	Diesel / Gas
Swing Dia Straight Arm	Mm	3200/475/2200	3400/475/2700	3800/475/3200	4400/475/3700
Swing Dia Offset Arm.	Mm	1900/400/1700	2000/400/2100	2000/400/2100	2900/400/2900
Elect Load	HP	36	51.50	65	86
Floor spare in LxWxH	Mtr	20 x 14 x 5	22 x 15 x 5	25 x 17 x 6	27 x 18 x 6



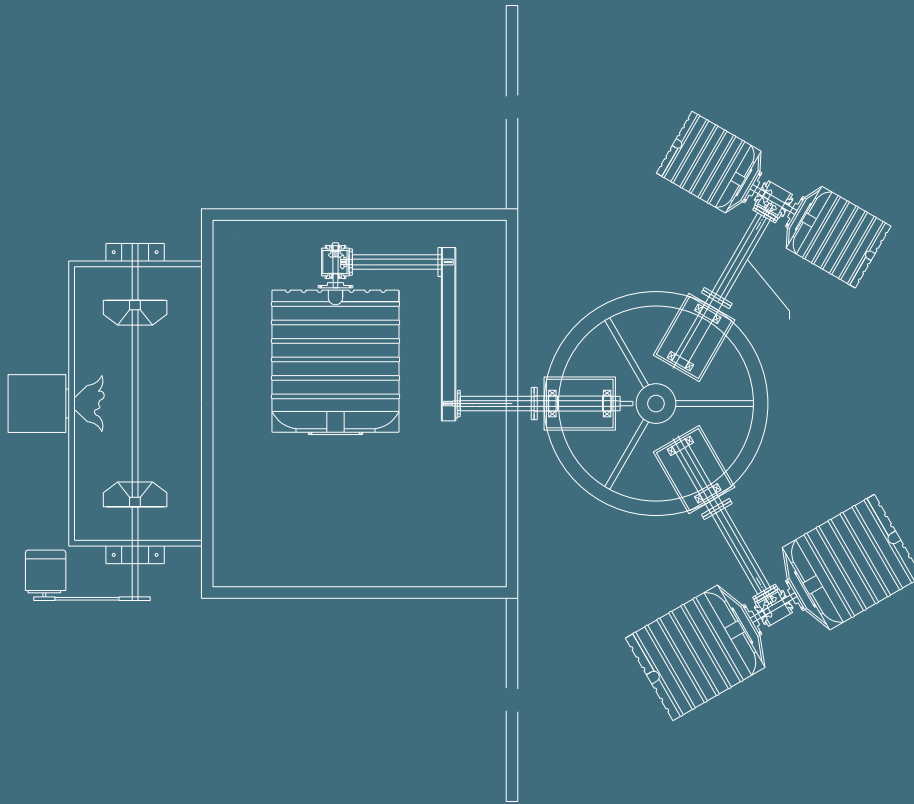


Fixed Turret 4/3 arm Bi axial machines.



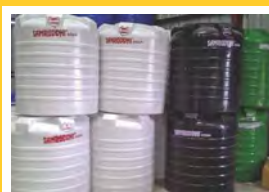
OPTIONAL :
PLC with microprocessor based control.

Layout Diagram



Technical Specification

Particular	Unit	AEBI - 2000	AEBI - 3000	AEBI - 5000	AEBI - 7500	AEBI - 10000	AEBI - 15000	AEBI - 20000
Oven chamber size	Mtr	3.2 x 2.5 x 3.2	3.4x 2.7 x 3.4	3.6 x 2.8 x 3.6	4.1 x 3.6 x 4.1	4.7 x 4 x 4.7	5.2 x 4.1 x 5.2	6 x 4.1 x 6
Fuel		Diesel / Gas	Diesel / Gas	Diesel / Gas	Diesel / Gas	Diesel / Gas	Diesel / Gas	Diesel / Gas
Swing Dia Straight Arm	Mm	2900/475/2100	3200/475/2200	3400/475/2700	3800/475/3200	4400/475/3700	4800/475/3850	5800/560/3900
Swing Dia Offset Arm.		1750/400/1600	1900/400/1700	2000/400/2100	2200/400/2600	2900/400/2900	3600/400/3200	4100/410/3200
Elect Load	HP	24	28	41.50	49	69	83	95
Floor spare in LxWxH	Mtr	12x 10x 4	14 x 10 x 4.5	15 x 14 x 5	17 x 14 x 5	18 x 16 x 6	20 x 16 x 6	26 x 18 x 6.5





Multi Station Shuttle Rotomolding Machines



Salient Features:

- ☛ Choose it for high volume production (beyond 15000L/4000USG)
- ☛ Equipped with machine controls and necessary interlocking
- ☛ Equipped with safety devices and indicators and alarms
- ☛ Microprocessor based machine control panel with display
- ☛ Optional PLC for complete automation
- ☛ Environment friendly burners suitable for LPG/CNG/Duel Fuels
- ☛ Optionally design heating chamber for energy efficient heat transfer to the moulds for fast and short cycle time
- ☛ Special insulation material for better working environment.
- ☛ Straight arm with four mould individual carrier for uniform thickness.
- ☛ Inbuilt mould positioning and balancing facility
- ☛ Facility to add Extra station for higher production

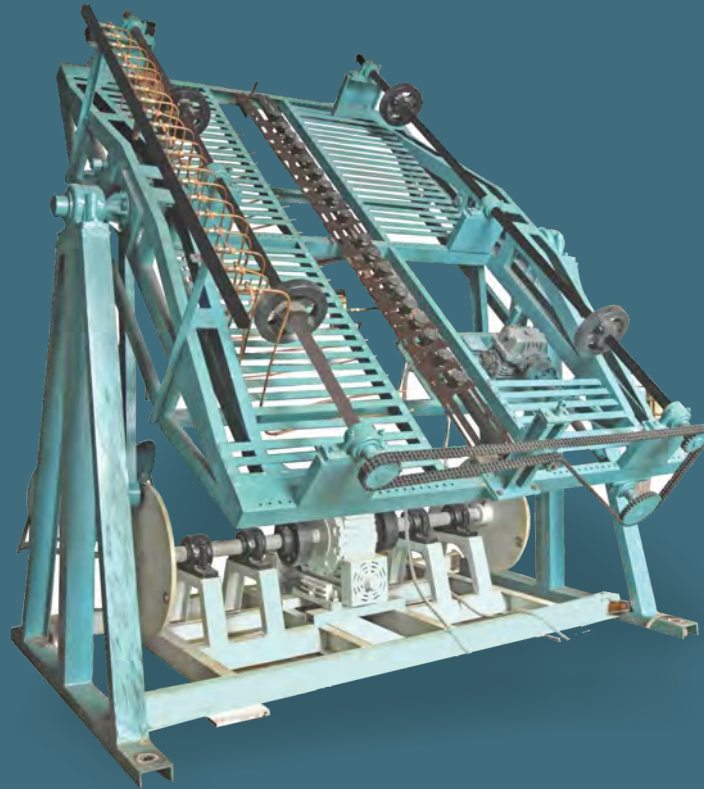
Technical Specification

Perticular	Unit	ASST-2000	ASST-3000	ASST-5000	ASST-7500	ASST-10000	ASST -15000
Oven chamber size	Mtr	3.2 x 2.5 x 3.2	3.4x 2.7 x 3.4	3.6 x 2.8 x 3.6	4.1 x 3.6 x 4.1	4.7 x 4 x 4.7	5.2 x 4.1 x 5.2
Fuel		Diesel/ gas	Diesel/ gas	Diesel/ gas	Diesel/ gas	Diesel/ gas	Diesel/ gas
Swing Dia Strgt Arm	Mm	2900/475 /2100	3200/475/ 2200	3400/475/ 2700	3800/475/ 3200	4400/475/ 3700	4800/475 3850
Swing Dia Offset Arm.	Mm	1750/400/ 1600	1900/400/ 1700	2000/400 2100	2200/400 2600	2900/400 2900	3600/400 3200
Elect Load	HP	31	33	39	49	65	83
Floor spare in LxWxH	Mtr	09x 11x 4	15 x 10 x 5	16 x 10 x 5	16 x 13 x 5	17 x 14 x 6	18 x 16 x 6

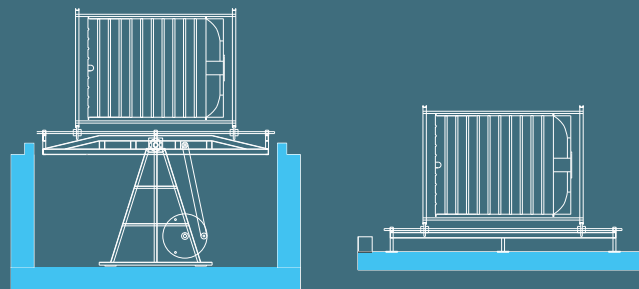




Rock N Roll Rotomolding Machines



Layout Diagram



Optional Features:
Crane
Cooling Station
Chain Pulley Block Polishing Grinder

Salient Features:

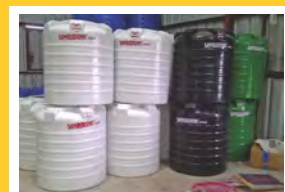
- This is very common & accepted way of operation which is very easy & operator friendly concept.
- Lowest project cost even for wide range of products to be produced.
- Faster return of investment due to lesser production cost
- Flexibility of different models to produce from 200 ltr to 25000 Ltr vertical tanks.
- Very less chances of product rejection as the process is fully visual.
- Low pressure Burners which are very simple & can be adjusted from outside. This provides faster heating & ease of usage even for unskilled operator.
- Practically lesser maintenance.

Technical Specification

Particular	Unit	Models					
		AER-2000	AER-5000	AER-10000	AER-25000	AER-35000	AER-50000
Suitable container range	Ltr	200-2000	200-5000	200-10,000	500-25000	500-35000	500-50000
Frame size : L x W	Mtr	3 x 2	3.5 x 2.2	5 x 3	6 x 4	6.5 x 4	7.5 x 5
Pit size: L x W x D	Mtr	4x 2.5 x 2	4.5 x 3 x 2.2	6 x 3.5 x 2.8	7 x 4.5 x 3	7 x 4.5 x 3.5	8.5 x 5.5 x 4.5
Type of Fuel		Diesel/Gas	Diesel/Gas	Diesel/Gas	Diesel/Gas	Diesel/Gas	Diesel/Gas
Total connected load	HP	5	7.5	16	27	39	56.5

Advantages Of Rotational Molding

- Low Investment in project compared to other plastics projects.
- Easy and operator friendly process.
- Low tooling costs.
- Development of new products is faster and economical.
- Mfg of Sheet metal moulds is faster and cheaper.
- Uniform wall thickness of products.
- Comparatively low skilled staff and operators required.

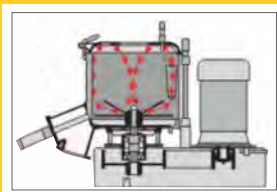




High Speed Mixer



ASH WIN MAKE High speed compounding mixer is suitable for homogenized and uniform mixing of polymers with other ingredients to prepare a good quality ready formulation which is used for further process.



Salient Features

- Robust construction, compact & convenient design.
- Mixing vessel outer jacket is made from 6 mm thick mild steel plate & inner from 5 mm thick S.S plate.
- Mechanical shaft seal & gasket is provided to prevent material leakage.
- Temperature sensor & indicator for precise measuring of material temperature.
- Faster mixing with excellent homogenization.
- Powder coated Electrical panel with dust proof construction equipped with Ammeter, Voltmeter, and Temperature Indicator with thermocouple, starter & other necessary electrical equipments.
- All switch gears & inputs of reputed & reliable make.

Technical Specification

PERTICULAR	UNIT	MODELS			
		ASM-75	ASM-150	ASM-200	ASM-300
Motor capacity	kw	7.5	11.65	18.25	22.50
Batch Mixing capacity	kgs	15	30	40	60
Approx production per hour	Kgs/hr	60-75	125-150	175-200	275-300
Approx weight	kgs	350	600	700	900

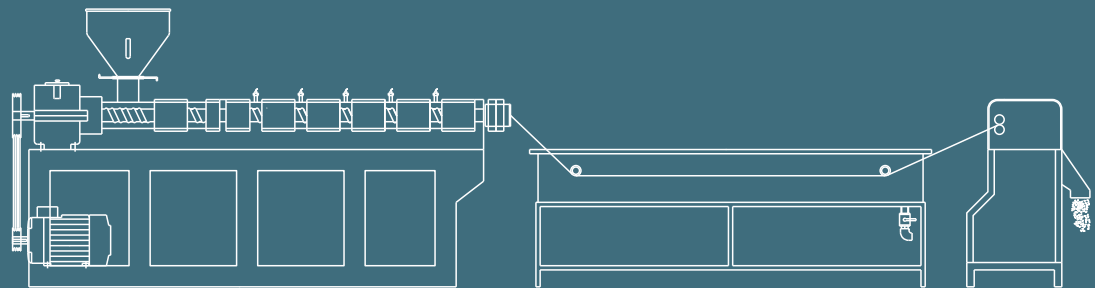




Extrusion Lines For Colouring, Reprocessing Granules.



Layout Diagram



Electrical Panel



Pelletizer

Optional Features:

Vacuum Hopper Loader
Die face cutter, Chiller, PLC,
Synchronization circuit

General Description

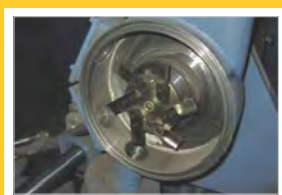
The LLDPE raw material with suitable master batch is being fed in to the barrel cylinder through storage hopper. The barrel is preheated by heating zones and suitable temperature control system to process the input material. The rotating screw pushes the material towards die end with uniform and homogenized plastics melt. The screw is rotated by suitable AC motor coupled with heavy duty gearbox. The plastics strands extruded from die are fed in to high speed Pelletiser unit after they get cooled and traveled through SS water cooling tank. Pelletiser cuts the strands in to desired size of pellets which can be collected in to storage silo.

Salient Features:

- Screw & barrel are made of nitro alloy steel, nitrided, finished polished and duly hardened for longer life.
- All Electrical switch gears are of reputed & reliable make.
- Digital temperature controllers for faster heating & energy saving.
- AC variable drive as standard feature for Pelletiser unit.
- Designed for reprocessing & colouring application of LLD, LDPE, HDPE, etc.

Technical Specification

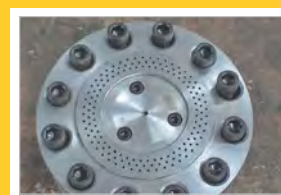
PERTICULAR	UNIT	MODELS			
		AEX-75	AEX-90	AEX-100	AEX-110
Main Motor	kw	18.25	22.25	37.25	45.00
Output in LLDPE	Kgs/hr	120	150	200	250
Floor space Required,	Mtr	7.5x 2.0x 2.0	9.0x3x2.2	9.5x3x 2.2	9.5x3x 2.2



Die Face Cutter



Screw



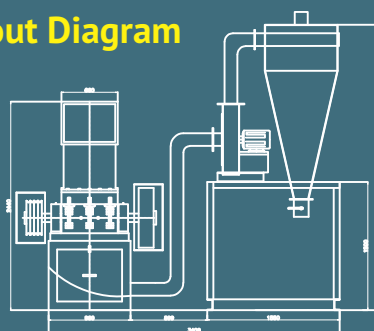
Strand Die



Solid Granulators



Layout Diagram



Salient Features

- Robust & Heavy steel construction body,
- Operation at less vibration.
- Long lasting & maintenance free operation.
- Higher output at low power consumption.
- Easy removal of screen for cleaning.
- Wide range of models for better selection.
- Rotary knives designed with scissors cut action and effective cutting angle to ensure effective grinding.
- Grinding knives are made from special alloy steel and hardened for longer life with easy adjustment facility.
- Side feeding attachment for pipes and material loading can be offered as optional.
- Grinding screen, top opening ,feeding attachment are designed for easy opening ,maintenance and change.
- Special designed Rotor type grinder suitable for grinding of variety of materials including Injection Molded articles, Blow Molded articles, Rotational molded, Pipes, etc.

Application Areas

- Blow molded articles like bottles, Jerry cans, drums, jars.etc.
- Injection Molded hollow articles like buckets, baskets, cabinets, etc.
- Rotational Molded Articles, scrap of Plastics tanks.
- Pipes from pipes dia 20 mm to 200 mm OD,

Technical Specification

PARTICULAR	UNIT	MODELS				
		AHR -300	AHR -400	AHR-450	AHR-550	AHR-650
MODELS		AHR -300	AHR -400	AHR-450	AHR-550	AHR-650
Fixed Knives	No	2	2	2	2	2
Rotary knives	No	3	3	3	3	3
Grinding motor	Kw	7.50	11.25	15.00	30.00	37.50
Throat Opening	mm	330x 350	350x450	450x 550	550x 650	650x 650
Screen size	mm	10	10	10	10	10
Grinding capacity	Kgs/hr	90-100	150	250	400	600
Floor space in (LXW)	mm	1200x 1000	1300x 1100	1600X 1300	1900X 1400	2000x 1500

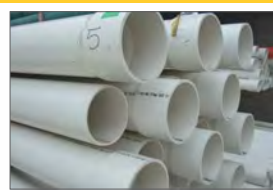
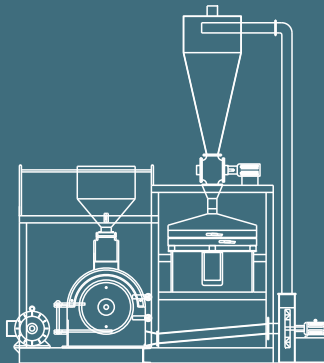




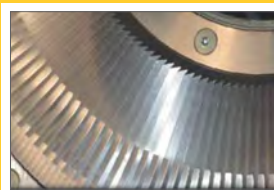
Microfine Pulverising System



Layout Diagram



PVC Pipes



Blade



Granuels



Plastic Powder

Salient features

- Complete Robust & very sturdy structure for sound & vibration free operation.
- Magnetic type vibrating feeder for uniform & controlled feeding of material.
- Main Grinding disc of superior grade material for longer life.
- Very effective water cooling system for Blade, Mill body and Bearing housing.
- Temperature monitoring of Disc Mill & thereby ease of control on feed rate.
- Vibratory screen for fine re- pulverizing of course materials.
- Powder coated Electrical panel with dust proof construction equipped with all safety features & controls.
- All components & bought outs parts are of reputed & reliable make.
- Complete Design with flexibility & perform fine Pulverizing of wide range of plastics materials like PE, RPVC, ABS, PC and other heat sensitive materials.

Applications

For fine Pulverising of LLDPE, LDPE, RPVC, ABS, PC and other heat sensitive polymers.

Technical Specification

Specification	Unit	AEPV-350	AEPV-400	AEPV-450	AEPV-550
Max. Output In LLD (Virgin 20 Mesh)	Kgs/Hr	60-70	80-100	120-140	160-200
Maxi. Output in RPVC (18 mesh)	Kgs/ hr	80 -150	150-200	250- 300	350-400
Total Load	KW	17.25	25.50	33.75	50.90
Floor Space , L X W X H	MTR	2.3 x1.6 x 3	2.5 x 1.6 x 3.5	2.5x 1.6x3.5	3x 2.5 x4.5

Optional Features

- Vacuum Hopper Loader
- PLC Controlled Operation
- Electronics Soft Starter for Main Mill



PLC Unit



Soft Starter



Hopper Loader



Agglomerator



Ashwin make ASAG series Agglomerator are designed for processing plastic waste for reclamation and recycling, LDPE, HDPE, PP, LLDPE, BOPP, HM, Polyester, Nylon, PVC etc. trim scraps, balled or loose film, synthetic fiber and carpet. Agglomerator is ideal to convert plastic waste films for easy feeding into Extruder.

Description of Operation

The Agglomerator operates in "batches" and the processing chamber is loaded before and during the process. The high-energy-blades shred the plastics loaded material and press it under the rotor due to its design. The friction heats being generated during the operation, which heats up the plastics material up to the processing temperature. At this temperature the material becomes highly viscous. Subsequently cold water is injected into the process which causes the material to densify.

This Agglomerator are also well known with other terminology names like Film compactor, Film densifier, Film washer, Turbo washer.

TECHNICAL SPECIFICATIONS :

MODEL	UNIT	ASAG-75	ASAG-100	ASAG-200	ASAG-300	ASAG-400
MAIN MOTOR	HP	20	25	40	60	75
BATCH CAPACITY	KGS	6-8	8-10	16-20	25-30	30- 35
OUTPUT	KGS/ HR	60 -80	80-100	150-200	200-300	300-400
APPLICATION		LD/ HM/ LLD/ PP/ TAPE/ PVC	LD/ HM/ LLD/ PP/ TAPE/ PVC	LD/ HM/ LLD/ PP/ TAPE/ PVC	LD/ HM/ LLD/ PP/ TAPE/ PVC	LD/ HM/ LLD/ PP/ TAPE/ PVC
APPROX WEIGHT	KGS	1000	1200	1800	2500	2800
DIMENSIONS	Mtr	1.70 x 0.75 x 1.50	1.70 x 0.85 x 1.50	2 x 0.85 x 1.60	2.30 x 1 x 1.75	2.30 x 1.1 x 1.80



Screen Vibro



Salient Features

- Minimum Blinding: Screen blinding can be minimized to greater extent by Multi plane action Vibtation control.
- Longer screen Life: Screen cloth is assembled with uniform tension on specially designed mesh frame.
- The tightly screening surfaces vibrate rigidly without flexing of wires, mostly reducing screen wears and increasing screen life.
- No transmitted vibration: No special flooring or foundation is required to use this Screening system.

Advantage

- Modular design structure.
- Space saving.
- Reduction in material loss.
- Better option to minimize dusting.
- Process optimization
- Better utilization of main & scrap material
- Easy operation and maintenance
- Flexibile design as per custom requirement.
- Cost control by reusing scrap material as per application
- Better & consistent product quality due to perfect screening.
- Better Polution control

Application Areas

Polymers, resins, Plastics, PPLDPE, LDPE, RPVC, Food Industry : Salt, Tea, Fertilizer, Effluent, Detergent powder, Edible Oil, Biscuit, Abrasives, Bulk Drugs, Cattle feed, Ceramic Industry, Metal Powder, Agro & seed Processing, Master batches, Paper & Pulp Industry, Pharmaceuticals, Spices and minerals, Petrochemicals, Rotomolding and reprocessed granules, Pesticides and Insecticides, Paints and powder coating, Talcom powder, Ayurvedic medicine, Cosmetics, Chemicals, Carbon and graphite, Chocolate, Dehydrated food, Dry fruits, Dyes and pigments, Engineering, Flour mill and foundry, Guar gum, Grains, Refactory, Glass beads, Metal powder, Tea, Slurry, Rubber.

Technical Specification

MODEL	Screen Dia. Inch.	Dimensions Dia x Height (MM)
AEVB-24	24	625 x 650
AEVB-30	30	775 x 900
AEVB-36	36	925 x 900
AEVB-42	42	1075 x 1000
AEVB-48	48	1250 x 1000
AEVB-60	60	1550 x 1200
AEVB-72	72	1850 x 1300



Rotational Moulds

ASH WIN has well equipped Mould division with all tooling facilities and technical team for precision fabrication of moulds with computerized design. We all have facilities like sheet cutting machines, bending machines, ribbed machines, argon welding, buffing machines and also have separate unit with full Rotomolding plant to test any regular or customized designed Roto moulds. We offer all Rotational Moulds of following design of Rotoproducts which are highly demanding in market.

Mould specifications

- ☞ Moulds will be fabricated from recommended and graded 2 or 3 mm sheet as per customer demand.
- ☞ We shall prepare and provide Autocad Drawing in 2D/ 3 D for your final approval.
- ☞ All moulds will be equipped with reverse engraved logo plates, LTR capacity and Instructions as per customer's requirements.
- ☞ Threaded Manhole rings for all moulds will be made as per regular or customized design and dimensions.
- ☞ All inside corner radius will not be less than 10 mm and joint will be avoided at corners.
- ☞ Parting lines will be made from properly leveled and matched flat bars or from plates. They will be without undercuts and properly matched with set pins.
- ☞ All the welded joints will be properly finished as same as mould surface.
- ☞ No dent, scratches or hammer marks will be observed.
- ☞ Mirror polished inside mould surface.
- ☞ If customer requires, then External surface of the mould will be painted with high resistance anticorrosion Black/ silver paint or may be with buffing.

Application areas

Building and construction

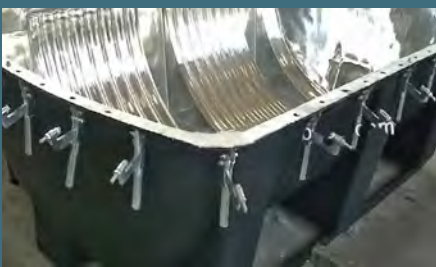
Water storage tanks, Loft rectangular tanks, Under ground water tanks (sumps) , Double / Triple layer tanks, PUF Insulated tanks, House hold drums, Septic tanks, House hold barrels/ drums for water and grains storage.

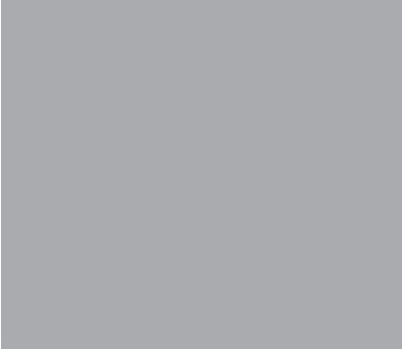
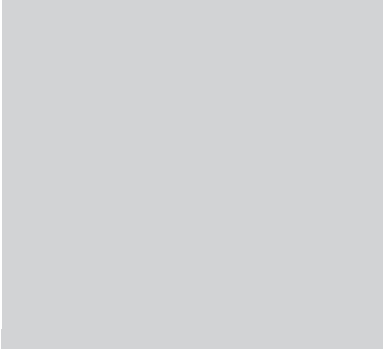
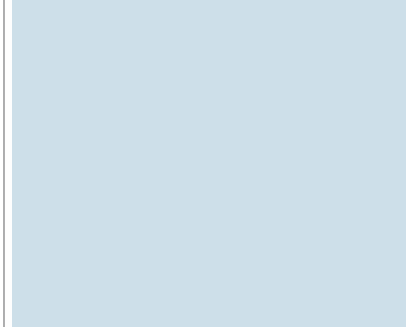
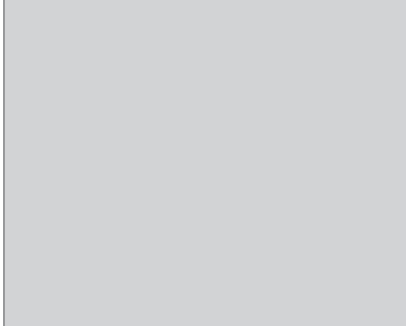
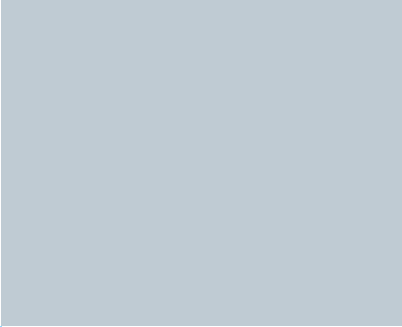
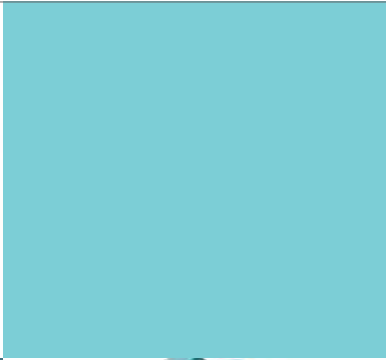
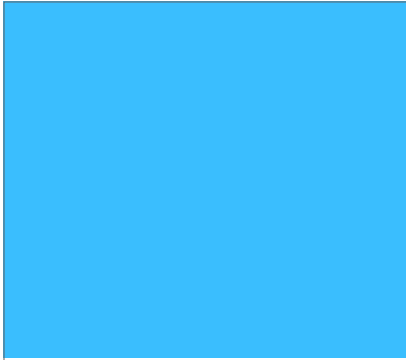
Industrial

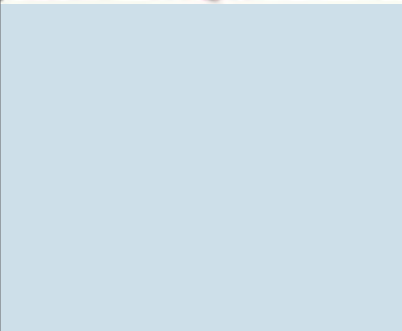
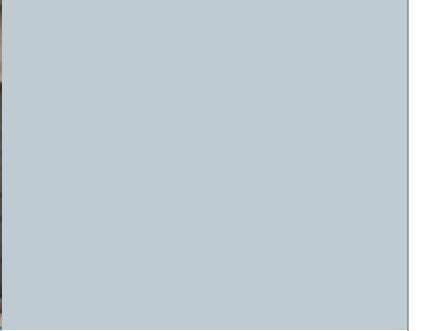
Chemical and acid storage tanks, Acid processing tanks, Mixing tanks, Electroplating / pickling tanks, Processing crates, stackable crates, Pallets, waste bins and containers, Insulated boxes, Insulated crates, Fish boxes, Intermediate bulk containers (IBC)

Others

Vessels, Horizontal tanks, Conveying system Mould, Planters, Roof top, Automobile parts like Nice shield, wheel guard, Dust bins, Furniture, Litter bins, Instruments console, Road barriers, and Road deviders, Play ground equipments like rockers, slides, kanopy, play stations, toys, balls, etc., floating docks on sea beach, Mobile toilet, camod, many other applications where hollow and bigger size article is used.









Plastics Water Storage Tanks (ISI)



ROTATIONAL MOULD

Technical Specification

Code no.	Capacity in	Diameter in	Height in	manhole
	Ltrs,	mm	mm	mm
ASIVT-200	200	740	605	280
ASIVT-270		740	755	280
ASIVT-300	300	735	870	280
ASIVT-500.01	500	1030	740	400
ASIVT-500.02	500	910	940	400
ASIVT-700	700	1030	1080	400
ASIVT-750	750	1030	1000	400
ASIVT-1000	1000	1100	1220	400
ASIVT-1500	1500	1350	1260	400
ASIVT-1750	1750	1400	1370	400
ASIVT-2000	2000	1350	1600	450
ASIVT-2500	2500	1500	1720	450
ASIVT-3000	3000	1700	1500	450
ASIVT-4000	4000	1800	1770	450
ASIVT-5000	5000	2000	1940	520
ASIVT-6000.01	6000	1800	2735	520
ASIVT-6000.02	6000	2000	2200	520
ASIVT-7500	7500	2000	2570	520
ASIVT-10000.01	10000	2000	3670	520
ASIVT-10000.02	10000	2550	2480	520
ASIVT-15000.01	15000	2550	3500	520
ASIVT-15000.02	15000	3000	2810	520
ASIVT-20000.01	20000	2550	4600	520
ASIVT-20000.02	20000	3000	3320	520
ASIVT-25000	25000	3000	4050	520



Plastics Water Storage Tanks

COMMERCIAL (NON ISI)



ROTATIONAL MOULD

Technical Specification

Code no.	Capacity in	Diameter in	Height in	manhole
	Ltrs,	mm	mm	mm
ASHVT-100	100	500	580	280
ASHVT-150	150	575	660	280
ASHVT-200	200	650	700	400
ASHVT-300	300	670	950	400
ASHVT-500	500	860	950	400
ASHVT-750	750	1000	1050	400
ASHVT-1000	1000	1100	1200	400
ASHVT-1500	1500	1240	1350	400
ASHVT-1750	1750	1310	1410	450
ASHVT-2000	2000	1350	1520	450
ASHVT-2500	2500	1460	1600	450
ASHVT-3000	3000	1560	1700	450
ASHVT-4000	4000	1700	1880	520
ASHVT-5000	5000	1850	2000	520
ASHVT-6000	6000	1950	2150	520
ASHVT-7500	7500	2100	2320	520
ASHVT-10000	10000	2350	2500	520
ASHVT-15000	15000	2700	2800	520
ASHVT-20000	20000	2900	3150	520
ASHVT-25000	25000	3000	3700	520





Loft Tanks



Technical Specification

Code no.	Capacity in Ltrs.	Length. mm	Width. Mm	Height. Mm	Manhole ID. In mm	No of man hole
ASHLT-150	150	720	720	370	310	1
ASHLT-225	225	1030	720	380	310	1
ASHLT-275	275	1230	900	310	310	1
ASHLT-300	300	1220	830	340	310	1
ASHLT-400	400	1550	1000	340	310	2
ASHLT- 425	425	1250	950	410	310	1
ASHLT-500	500	1400	1000	440	310	2
ASHLT- 625	625	1440	990	510	310	2
ASHLT- 825	825	2000	1000	510	310	2
ASHLT- 1000	1000	2000	980	610	310	2

ROTATIONAL MOULD

Underground Water Storage Tanks



Technical Specification

Code no.	Capacity in Ltrs	Dia. In mm	Height in mm	Manhole extension	Total height	Manhole dia.
ASHUG- 1000	1000	1190	1180	200	1380	410
ASHUG-2000	2000	1390	1640	200	1840	410
ASHUG-3000	3000	1640	1740	200	1940	410
ASHUG-4000	4000	1790	1940	200	2140	410
ASHUG-5000	5000	1990	1990	200	2190	410



House Hold Drums

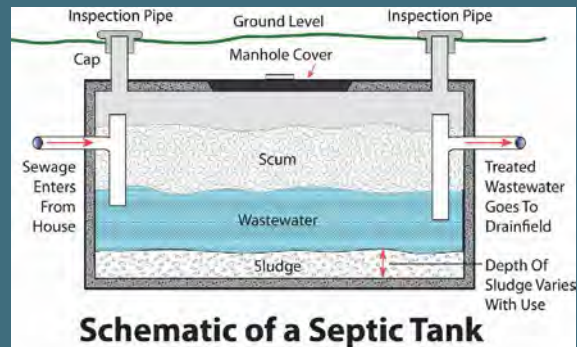


Technical Specification

Code no.	Capacity in Ltrs	All Dimensions in mm		
		Diameter	Height	Manhole dia.
ASHHD-100	100	450	700	300
ASHHD-150	150	510	810	300
ASHHD-225	225	550	970	410

ROTATIONAL MOULD

Septik Tanks



Technical Specification

Code no.	Capa.in Ltrs	Diameter in mm	Overall length mm
ASHST - 2800	2800	ASHST - 1250	2750
ASHST - 3800	3800	ASHST - 1250	ASHST - 3800
ASHST - 4500	4500	ASHST - 1500	ASHST - 4500
ASHST - 6000	6000	ASHST - 1850	ASHST - 6000
ASHST - 7500	7500	ASHST - 1850	ASHST - 7500
ASHST - 9000	9000	ASHST - 1850	ASHST - 9000
ASHST - 12000	12000	ASHST - 1850	ASHST - 12000



Wheeled Garbage Bins



Technical Specification

Code no.	Capacity in Ltrs	All dimensions are in MM		
		Top	Bottom	Height
ASHGBW- 90	90	410 X 410	300 X 250	810
ASHGBW- 120	120	450 X 450	350 X 300	850
ASHGBW- 140	140	470 X 470	370 X 320	890
ASHGBW - 240	240	500 X 600	410 X 450	1050
ASHGBW- 330	330	610 X 760	420 X 490	1100

ROTATIONAL MOULD

Waste Bins Rectangular



Technical Specification

Code no.	Capacity in Ltrs	All dimensions are in MM		
		Top	Bottom	Height
ASHGRB- 20	20	330 X 330	295 X 295	480
ASHGRB- 60	60	360X 360	260X 260	850
ASHGRB- 80	80	400 X 400	310 X 310	880
ASHGRB- 100	100	510 X 510	355 X 355	890
ASHGRB- 125	125	510 X 510	355 X 355	1090



Insulated Ice Boxes



Technical Specification

Code no.	Capacity in Ltrs	All Dimensions in MM		
		Length	Width	Height
ASHICB-20	20	350	300	320
ASHICB-50	50	550	410	400
ASHICB-60	60	560	425	430
ASHICB-70	70	640	525	580
ASHICB-100	100	750	550	425
ASHICB- 120	120	620	620	550
ASHICB-150	150	800	560	700
ASHICB- 220	220	950	630	640
ASHICB- 330	330	1300	630	640
ASHICB- 560	560	1075	925	890

ROTATIONAL MOULD

Industrial Pallets



Technical Specification

Code no.	Over all dimensions in mm			Description.	Application
2 WAY ENTRY PALLETS					
	L	W	H	Non Reversible, 2 way entry, 3 skids, entry from width side, with plain top	Static, Dynamic and racking load,
ASHPLT-2W.01	1000	800	170		
ASHPLT-2W.02	1000	1000	170		
ASHPLT-2W.03	900	900	170		
ASHPLT-2W.01	1200	800	170		
ASHPLT-2W.02	1200	1000	170		
ASHPLT-2W.03	1200	1200	170		
4 WAY ENTRY PALLETS					
	L	W	H	Non Reversible, 4 way entry, 9 legs, Plain top, Entry from all side,	Static and dynamic load,
ASHPLT- 4W.01	1000	800	180		
ASHPLT -4W.02	1100	850	170		
ASHPLT- 4W.03	1200	800	170		
ASHPLT- 4W.04	1200	1000	170		
ASHPLT -4W.05	1000	1000	200		
ASHPLT- 4W.06	1200	1200	190		





Processing Containers



Technical Specification

Code no.	Capacity in Ltrs	All dimensions are in MM		
		Top	Bottom	Height
ASHGBW- 90	90	410 X 410	300 X 250	810
ASHGBW- 120	120	450 X 450	350 X 300	850
ASHGBW- 140	140	470 X 470	370 X 320	890
ASHGBW - 240	240	500 X 600	410 X 450	1050
ASHGBW- 330	330	610 X 760	420 X 490	1100

ROTATIONAL MOULD

Chemical / Acid Processing Tanks

(Vertical tank & conical shaped at bottom)



Technical Specification

Code no.	Capacity in Ltrs	Over all dimensions in MM		
		L	W	H
ASHCH-20.01	2000	1325	2000	410
ASHCH- 40.01	4000	1850	2100	510
ASHCH- 50.01	5000	2050	2250	510
ASHCH-100.01	10000	2600	2950	510
ASHCH-150.01	15000	2950	3300	510
ASHCH- 200.01	20000	2950	3900	510
ASHCH- 250.01	25000	2950	4600	510



Chemical / Acid Processing Tanks (Horizontal shaped tank)



Code no.	Capacity in Ltrs	Over all dimensions in MM		
		Length (Dia)	Top	Man hole size
ASHTHT- 500.01	5000	1650	2750	510
ASHTHT- 1000.01	10000	2100	4000	510
ASHTHT- 2000.01	20000	2600	4800	510

ROTATIONAL MOULD

Encilliary Equipments & Optional Items



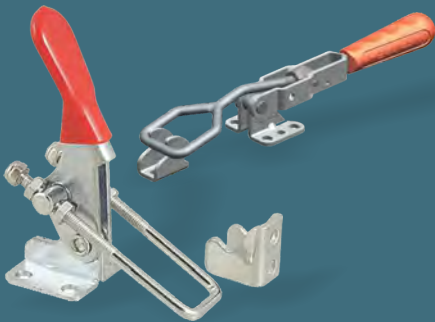
HOPPER LOADER



COOLING FAN



CHILLER



MOULD TOGGLE CLAMPS



COOLING TOWER



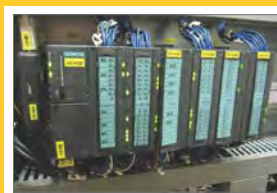
MOBILE CRANE

ASH WIN OFFERS PLC Microprocessor controlled Electrical panel with touch screen for Rotomolding machine.(As an optional feature on customer's request)

PLC is a general purpose control system that accepts input from such sources as push buttons, limit switches, temperature, pressure, and flow sensors. It is capable of generating outputs to such devices as load relays, motor starters, stepping motors, solenoid valves and even servo drives. A programmable logic controller (PLC) or programmable controller is a digital computer used for automation of electromechanical processes, such as control of machinery on factory, textiles, All types of Plastics Processing machines, Pharmaceuticals machines, etc . PLCs are used in many industries and machines, such as packaging and semiconductor machines. Unlike general-purpose computers, the PLC is designed for multiple inputs and output arrangements, extended temperature ranges, immunity to electrical noise, and resistance to vibration and impact. Programs to control machine operation are typically stored in battery-backed or non-volatile memory. A PLC is an example of a real time system since output results must be produced in response to input conditions within a bounded time.

Benefits of PLC controlled Rotomolding machine

- ⦿ Accurate & Precise operation , position & control of machine.
- ⦿ Various Interlocking for high level of operator's safety .
- ⦿ Audio & Visual alarm systems for faults.
- ⦿ Storage of all data like recipe and production data.
- ⦿ Very easy settings and adjustments of all process parameters.
- ⦿ Easy to understand and maintain due to graphical displays of process.
- ⦿ Easy views and picturization of trends of temperature, speed and load etc.
- ⦿ Log of all alarms.
- ⦿ Password security
- ⦿ Diagnosis and fault finding is very simple.
- ⦿ Easy & faster recall of old products data & its parameters .
- ⦿ Easy and simple to operate whole machine only from one station.





Helping Customers

We at Ash win Engineers , as a team not only committed to deliver best products and services to our valued customers and new prospects; but we wholeheartedly work towards helping customers and new prospects by rendering total services and guidance regarding the project. Our company's customers oriented approach as above leads to a long lasting strong bonding with our valued customers. Which comes back as repeated business from our majority customers.

- Since we are focused and highly experienced team , we provide total support and guidance, supervision related to civil work, construction, foundation, layout , electricals, piping of water, fuel and other utilities requirements. So that customer can feel comfortable to finish the entire Rotomolding project smoothly , economically and on possible minimum time frame.
- Since we have wide range of machines , we advise customers most appropriate projects with suitable machines and Moulds to meet their end requirements. Which offers customers benefits of faster return of investment.
- We have full-fledged facilities , resources and technical team to design and produce a stringent and critical Roto products, we provide customer total solution of their end products with suitable Moulds and machines.
- We have a separate processing company which is our sister concern manufacturing various Roto products with all latest Rotomolding machines and Moulds and experienced team from Rotomolding Industry. Hence we help customer to show and guide a prototype Rotomolding company and its set up. We also guide customers about most economical raw material , its formulation and mixing on practical aspects and results so that customer can try on that to minimise their product cost / quality ratio. This service as long term enhances the profitability of customer's business.
- Since we have separate unit of Roto processing , we can try and produce the plastics samples of customers special Mould and can prove with quality of end product. This process boosts up customers confidence about entire rotomolding project.
- Since we have good team of Technical persons and Rotomolding operators , so as per circumstances and as needed we depute our person at customers factory for one to three months on chargeable basis; this help customers to set their project and to put it in to regular production. By this way customer also gets time to train their other personnel. We also organise and help customers to recruit the right technical person / operators for their project especially in export cases.
- We can supply a turnkey projects and train the customers personnel.

Our company's customers oriented approach as above leads to a long lasting strong bonding with our valued customers. Which comes back as repeated business from our majority customers.



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