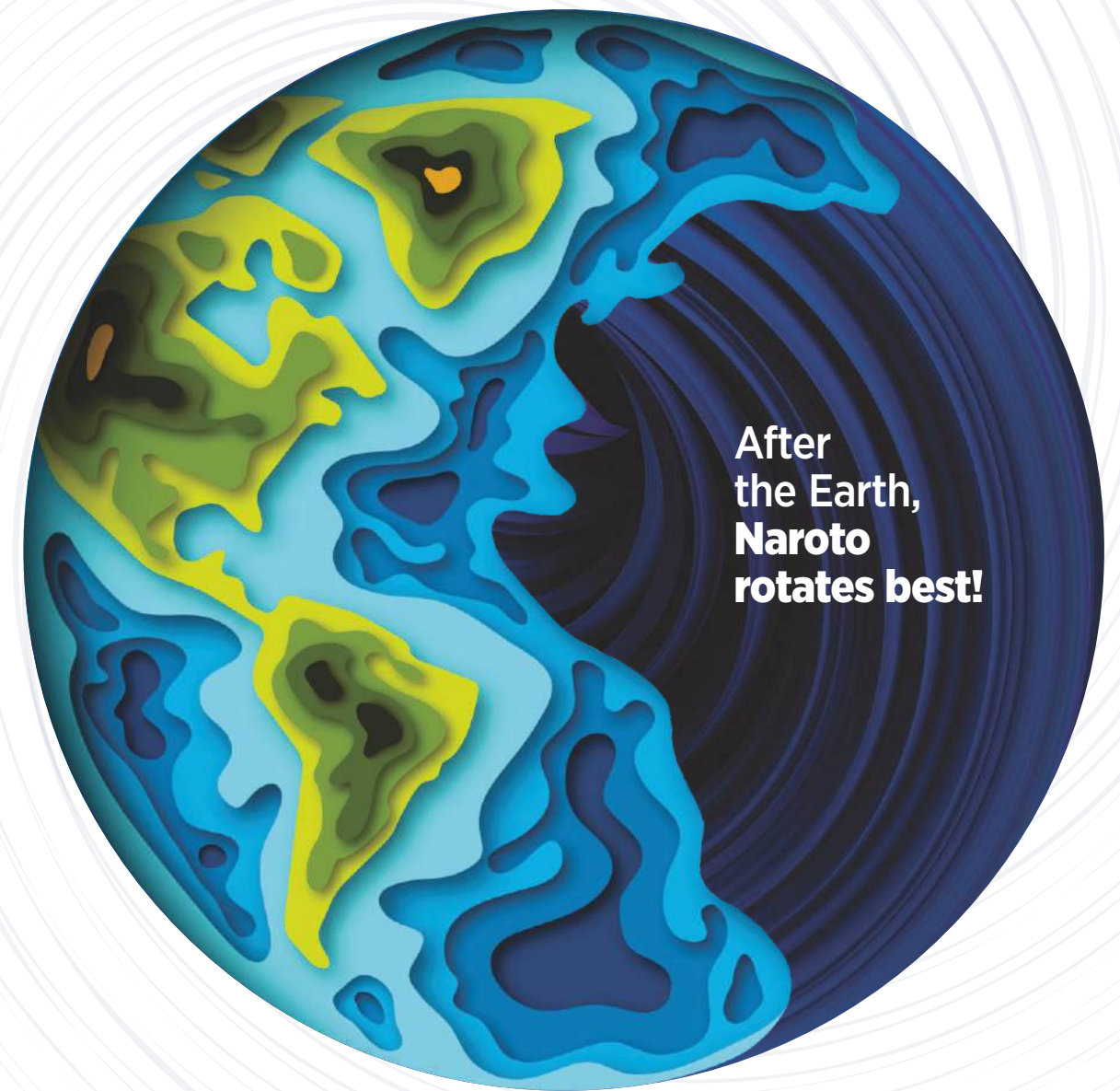


Ready to Rotate

NAROTO is in the world of Rotational Moulding since four decades. Our rich experience is enlightened with our continuous research and development in the Rotomoulding industry manufacturing and exporting various machinery, moulds and ancillaries. We customize Machine and Moulds as per client's requirement to meet their business requisite. Our assured and extended support to our clients for working out best solutions on economizing investment cost gives immense satisfaction to them while working with us. After sales service and 24*7 Online support are our strengths to make business relationship stronger with our clients.

www.naroto.com



After the Earth,
Naroto
rotates best!

NAROTO
GET SET ROTATE

NAROTO
GET SET ROTATE

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Note : The information contained in this catalogue is to the best of our knowledge, true and accurate but responsibility can not be taken by NAROTO. This is without prejudice due to continuous improvisation, specifications are subject to change. Accessories shown on product images are not part of standard scope of supply.

**Because rotation is
Naroto's passion.**

We have driven ourselves by
admiring the omnipotence of Earth
and its dedication towards rotating.
Earth never stops its manoeuvre
and inspires the untold number of
lives with its each rotation. Naroto
also commits to empower the
world; by innovating the essentials
for mankind, needed throughout
every single rotation of The Earth.

The Momentum of Machining

Excellence is not an occasional achievement. It is enduring and it takes more efforts & dedication to become a leader of revolutionary NAROTO Machines. A commitment that will last forever.

N.A. Roto Machines & Moulds India is committed to the future of Moulding Machines. This confidence is prospered with our progress of 41 years in Moulding Industry. Our expertise has acquainted us with more power, passion and proficiency of machining the needs of industries which are committed to innovation for daily necessities of the society.

We are equipped with the manufacturing strength spread across an area of 19,000 Sq. Mtrs. in which 55 plants , 1700+ moulds of Stainless Steel & Mild Steel Material are manufactured per annum. The area also includes In-house R&D center having CNC & VMC Machines for precision and accuracy.

Naroto machines are revolutionary in Rotational Moulding. They are specially designed to overcome the out-bearing cost involved in tooling of the equipment, unlikely in other moulding processes. Naroto machines are manufactured with endless design possibilities in addition of being economical.

Index

Our Orbit	06
Winner of Regional Export Awards	07
Infrastructure Metier	08
Moulding Magnetosphere	10
The Heat Budget Oven	12
Motion Rhythm Roto Compact	14
Independent Motion Independent Arm Machine	15
Good-God Station Shuttle	16
Vertical bound A-One	18
Amicable Harmony Mixer	19
Rolling Revolution Rock N Roll	20
Roto Cube & Planter	22
Seasonal Radius Extruder	26
Particle Perfection Pulverizer	28
Scrap Grinder, Scrap Cutter	30
Blow-Recycling Shredder	32
Screening Star Vibro	33
Meridian Range Moulds	34
Elemental Population Accessories	49



**Roto Moulding Machineries,
Moulds and Ancillaries
Manufacturers.**

Our Orbit

We did it with manufacturing Moulds for Rotomoulded Tanks and various essentials for full-fledged plant and Machinery including auxiliaries and accessories for Rotomoulding. We have a stronghold of manufacturing Largest Vertical Tank with a capacity of 40,000 L. We enjoy a commanding position in Asia with global prevalence in countries like Middle East, Africa, CIS and Europe. Today N. A. Roto Machines & Moulds India has earned the faith of 1400+ Clientele over 91+ Countries. Our quality and competence in price and delivery is unmatched.

Navigate your Pursuits

We are established at Ahmedabad, Gujarat - the commercial hub of India. Ahmedabad has a close correspondence with metro cities of the country, like 1-hour air travel from Mumbai and 1.5-hour from Delhi. Our manufacturing plants are located in the prominent industrial area, which harbors the giants of Plastic, Engineering, Chemical and various other production sectors.

The Transformers

We Naroto manufacture Highly efficient Rotational Moulding Machinery, Pulveriser for LLDPE, LDPE, HDPE and PVC, Extruder for colouring and reprocessing, Sheet Metal Moulds from Stainless Steel and Mild Steel as well as CNC Machined Moulds.

Naroto transforms simple polyethylene resin powder into incredible products.



Mr. R. A. Rajeev(IAS) - Principal Secretary, Finance, Government of Maharashtra, India presenting Best Performance Export Award to the Technical Director of NAROTO.



WINNER OF REGIONAL EXPORT AWARDS FOR THE YEAR 2012-13, 2015-16



Ms. Juhi Chawla - Presenting The Best Trusted Plastic and Polymers Company in Gujarat Award to NAROTO

WINNER OF The Best Trusted Plastics and Polymers Company in Gujarat YEAR 2019



Infrastructure
Metier



Moulding Magnetosphere

In Plastic Industries, three main processes are popular.

(1) Extrusion Moulding (2) Blow Moulding (3) Injection Moulding.

We have made Rotational Moulding an economical process with uncompromised quality of end products. For the Large Hollow Component, the Rotational Moulding is the most preferred process. The main drawback of other processes was the high cost of tooling the equipment against the single piece weight of the product. The principle advantages of the process are:

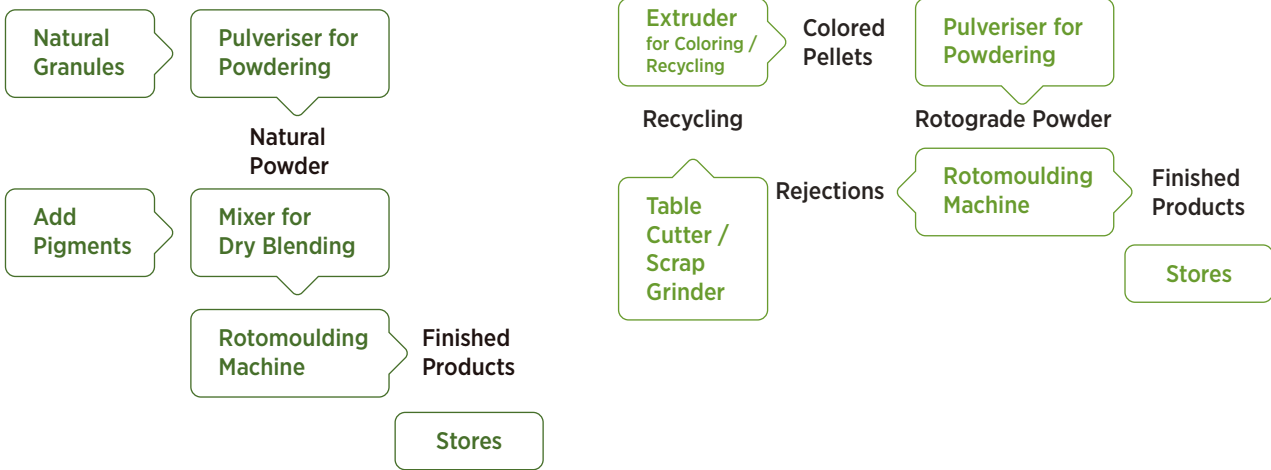
- Economic tooling costs - Single piece Construction - Weight reduction as compared to most Processes - Uniform wall thickness
- Variety of finishes and colours - The ability to produce multi-wall Mouldings - Metal inserts as integral parts - Short lead-time
- Minor undercuts are possible with no draft angle required -Products from this process can offer excellent load-bearing and resistance to stress cracking - Low maintenance -Ease of Operation.

The Rotation Role-Play

Ready Roto



Do-it-all Roto



Sources



Raw Material

LLDPE / MDPE / HDPE (Roto Moulding Grade)
MFI Between 3.0 to 4.5 and Density Between 0.92 to 0.95 are widely used.

Process

Rotational Moulding, also called Roto Casting or Roto Moulding is a unique process because the heating, shaping and cooling process take place inside a mould with no application of pressure. The process is carried out at the ambient pressure, which makes the products withstand environmental stress and crack resistant during use.

- A predetermined quantity of blended polyethylene resin powder is placed inside a cold mould (usually of aluminum or steel sheet metal).
- The mould is then rotated (Bi-Axially) and gradually heated inside the oven. As the metal mould gets heated, the polymer resin powder melts and the molten resin eventually gets distributed (Coated) along the inner surface of the mould. When all the powder has melted & distributed, the mould is transferred to a cooling chamber keeping the mould rotating.
- The Biaxial rotation is continued until the cooling process is finished and the polyethylene has solidified. The mould is then opened and the finished product is removed. Given process chart helps understand the system.

Various Articles made through Rotomoulding

Applications

			Domestic Drinking Water Storage Tank Overhead Vertical -Loft Tanks - Furniture - Planters - Rain Water Storage Slim Line Tank - Toys - Dog Kennels- Office Waste Containers - Playground Equipment Wheel Barrows -	
				
			Industrial Chemical Storage - Textiles Trolleys - Material Handling - Food Processing - Pharmaceutical / Chemical	
			Safety and Constructional Road Barriers - Septic Tanks - Mobile Toilets Underground Manhole Chambers	
			Agricultural Spray Tanks - Animal Feed crates	

The Heat Budget Oven

Application
 The principal applications of NAROTO four fixed arm machine in which the process time for each arm requires an equal amount of time for loading heating, cooling and unloading.

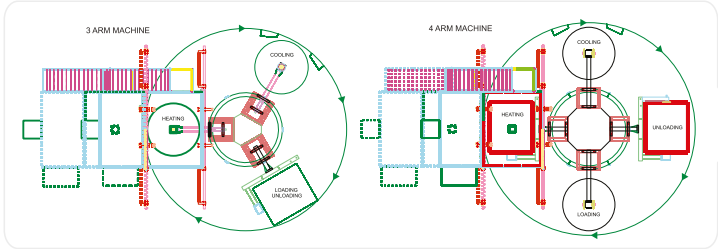
According to Rotomoulding process Four arm Machine is most suitable.

The machine processes without interruption for the same recipe product with minimum cycle time, fuel efficiency and high productivity.

Model Available	Range Available
Moving oven with Turret type Machine having 3 / 4 Fixed Arms.	Wide range of Moving Oven type Rotomoulding machines having oven chamber size upto 6.0 meters to produce up to 20,000 ltrs [5,000 USG]



Top View



- Salient Features**

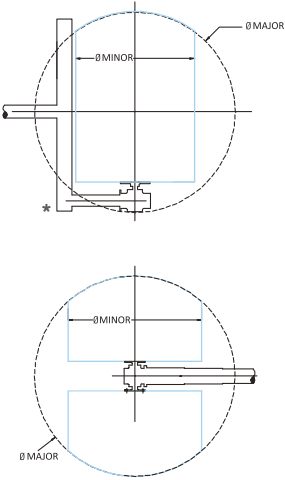
 - Average Heating Time 3-3.5 Minutes/1 mm thickness of Plastic Resin Material
 - Average Fuel Consumption - 100 Gms. (LPG)/Kg. of Plastic Weight
 - Fast Production Machine, optimum cycle time
 - Shorter Payback Period
 - Arms of Specially Treated Material for Round the Clock Working
 - Provision of Interchange-ability of Arms
- Special Insulation Material for better Working Environment
 - Equipped with Controls/Necessary Interlocking/Safety Devices/Indicators & Alarms
 - Environment friendly burners suitable for LPG/CNG/OIL/Dual Fuels
 - Microprocessor based Machine Control Panel with digital display
 - User Friendly Multilayer/PE Foam charging



Technical Specifications

Model	Floor Space (Mtrs)			Straight Arm Swing (mm)*		Offset Arm Swing (mm)*	
	L	B	H	Major*	Minor	Major*	Minor
RAPID 4S - 0200	14.5	10	6	3200	1600	3200	1450
RAPID 2X - 0200	16.5	12	7	4100	1600	-	-
SPEED-90 - 0500	18	13	6.5	3600	2800	3600	2300
SPEED-2X - 1000	23	16	7	4300	3600	4300	2700
SPEED-2X - 2000	25	17	8	5800	3600	5500	3000

Accessories shown on machine images are not part of standard scope of supply. *Gross Rotating Area



Motion Rhythm Roto Compact

Application
 ROTO COMPACT is Medium Budgetary Versatile Machine for Road Barricades.
 In addition to same productivity as blow moulding,
 Roto Compact gives benefits such as...

- Minimal Wastage
- Low Tooling Cost
- Longer Product Life
- Uniform Product Thickness
- Low Maintenance

Production Capacity

- 350 Road Barricades of 2 MTR
- 530 Road Barricades of 1 MTR



Technical Specifications

Model	Floor Space (Mtrs)			Straight Arm Swing (mm)*		Offset Arm Swing (mm)*	
	L	B	H	Major*	Minor	Major*	Minor
ROTOCOMPACT Naroto - FOB - 0500	18.0	12.2	5.0	3600	2600	3400	2200

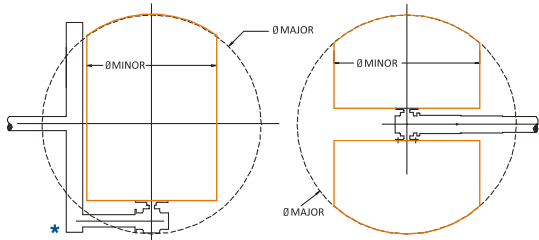
Accessories shown on machine images are not part of standard scope of supply. *Gross Rotating Area



Independent Motion Independent Arm Machine

Application
 NAROTO independent arm machines are used when processing time for products on each arm is different due to varied product category. Eg. Pallets, Ice box, Automobile parts Engineering products, etc. The machine operation is user friendly and is flexible in process for different recipe product without any interruption having optimum productivity using 3/4 arms for different varieties of product

Again it is also used when any particular arm is to be skipped from process. Extra space is provided to facilitate the process waiting time for pre-cooling.

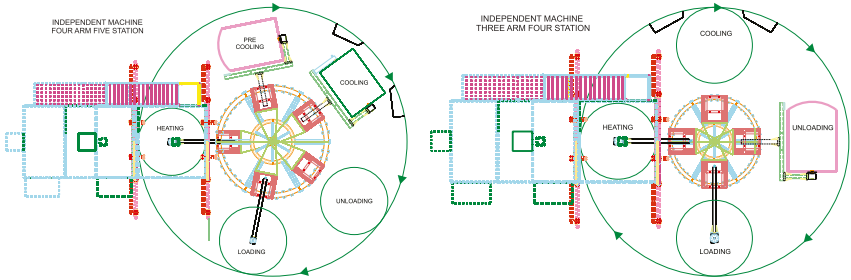


Model Available

Moving oven /fix oven with Independent 3/4 Arms with 4/5 Stations.

Range Available

Wide range of Moving Oven type Rotomoulding machines having oven chamber size up to 6.0 meters to produce up to 20,000 ltrs [5,000 USG]





Good-God Station Shuttle

Application

Shuttle type Rotomoulding machines are specially designed to hold large moulds as well as multiple moulds with various capacities. The machine is flexible to produce different recipe product. To fulfil demand, there is a provision to add Multi Stations. For strong and comfortable operation, there is a provision of carrier plates and both side support on arm to hold such large size mould (wherever applicable) instead of the cantilever type arms, which is also the USP of shuttle type machines.

Model Available

- Fix oven with moving carriage [station] 1 - 4 Stations (Expandable).
- Moving oven with moving carriage [station] 1 - 4 Stations (Expandable).

Range Available

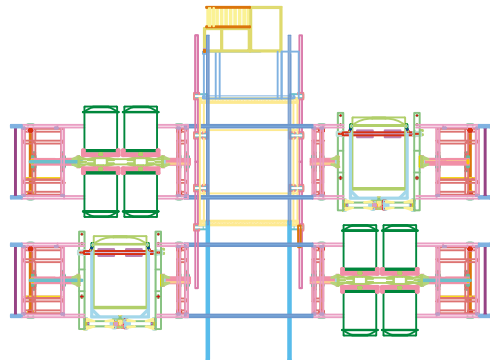
Wide range of Shuttle type Rotomoulding machines having oven chamber size up to 7.0 meters to produce up to 35,000 ltrs [9000 USG]

Salient Features

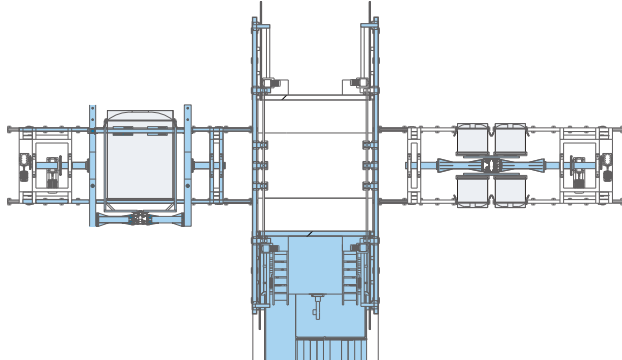
- Recommended for large size/volume production & Geometrically Dissimilar Shapes
- Facility to add Extra station for higher production when required
- Average Heating Time; 3-3.5 Minutes/1 mm Thickness of Plastic Resin Material
- Shorter Payback Period
- Equipped with Controls/Interlocking/Safety Devices/Indicators and Alarms
- Microprocessor based machine control panel with digital display
- Optional PLC for complete automation
- Environment friendly burners suitable for LPG/CNG/OI L/Duel Fuels
- Optimally designed heating chamber for energy efficient heat transfer to the moulds for fast and short cycle time
- Special insulation material for better working environment.
- Arm of Specially treated Material for Round the Clock Working
- User Friendly Multilayer/PE Foam charging facility
- Inbuilt mould positioning and balancing facility



TOP VIEW FOR FOUR STATIONS



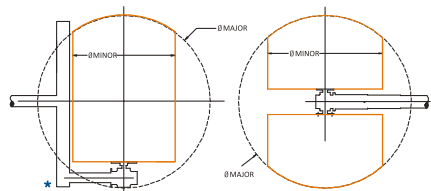
TOP VIEW FOR TWO STATIONS



Technical Specifications

Model	Floor Space (Mtrs)			Off-Set Arm (mm)		Straight Arm (mm)	
	L	B	H	Major*	Minor	Major*	Minor
Naroto - SHU - 0200	8.5	5.5	3.7	2700	1600	2700	1800
Naroto - SHU - 0500	11	6.5	4.2	3400	2100	3400	2600
Naroto - SHU - 1000	14	7	5.2	4100	2670	4100	3400
Naroto - SHU - 2000	16	8.5	6.7	5300	3250	5300	3800

Accessories shown on machine images are not part of standard scope of supply. *Gross Rotating Area



Vertical bound A-One

Applications

- Having 360 degree Rotation and indirect heating systems to achieve uniform wall thickness for any shape/size of hollow product.
- User friendly operation.
- FUEL: Diesel / Gas.
- Entry level machine having Low Production capacity
- Also used for Roto Lining application.

Range Available

Wide range of Moving oven single station type Rotomoulding machines having oven chamber size up to 6.0 meters to produce specific product.



Amicable Harmony Mixer

Applications

- Blending Master Batch with the virgin granules
- Mixing Pigments or Pigment Paste with granules or polymers powder
- Blending Pigment and Fillers additives



Salient Features

- Moisture-free blending and compounding with additives in differently controlled temperatures
- Process control timer switch to set and monitor process
- Provision for online additives or pigment adding facility and breather valves on the lid
- Thermo couple to monitor temperature
- Pneumatic controlled powder discharge and lid opening arrangement
- Sturdy construction
- Stainless steel vessels (corrosion resistant)
- Twin jacket for heating and cooling
- Timer control for energy saving, Heavy duty bearing housing for trouble free working.

Technical Specifications

Model	Floor Space (Mtrs)		
	L	B	H
Naroto - MI - 025	1.5	1.5	2.0
Naroto - MI - 050	1.75	1.75	2.0
Naroto - MI - 100	2	2	2.5

Accessories shown on machine images are not part of standard scope of supply.

High efficient high speed Mixer designed to generate heat with friction. The high speed Mixers are used to mix granules with pigment paste or pigment powder or different coloured granules for uniform blending. The heat achieved while mixing is important to blend the pigment paste and polymer powder uniformly.





Rolling Revolution Rock N Roll

Salient Features

- Best suited for STARTUPS as low in investments
- Can be used for rotolining
- Special article like Drainage Pipes, Boats , Kayaks up to 6.5 mtrs. can be produced.
- Ease in operating & trouble free Machine
- Suitable for large size hollow products. Up to 40,000 ltrs./10,000 USG. capacity
- Microprocessor based machine control panel with digital display
- Low cost, more production for big size hollow product
- Auto ignition outside adjustable individual burners are user-friendly for effective heating.
- Fully visible Process and monitoring which can avoid rejection of products.



Application

Suitable for large size cylindrical vertical containers and other similar products. Also used for Roto Lining of products.

Model Available

Gas fired Open Flame Machine with cooling station

Range Available

Wide range of Rock n Roll type Rotomoulding machines having frame size upto 7.0 x 5.0 meters to produce up to 40,000 ltrs. [10,000 USG]



Open Flame Rock N Roll Machine



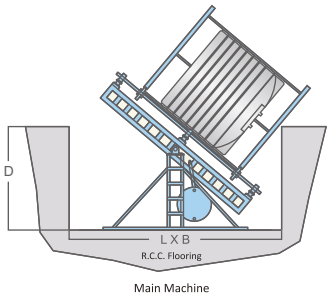
Rock N Roll Machine

Cooling Station with Fan

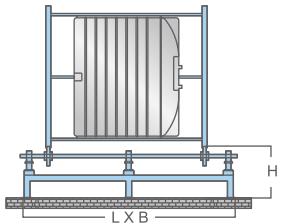
Technical Specifications

Model	Pit Size Main Machine (Mtrs)			Floor Space For Cooling Station (Mtrs)		
	L	B	D	L	B	H
Naroto - RR - 055	5.0	3.0	1.8	3.6	2.4	0.7
Naroto - RR - 110	6.8	3.7	2.5	5.2	2.7	0.8
Naroto - RR - 220	8.3	4.8	3.0	5.6	3.3	0.9
Naroto - RR - 330	8.3	4.8	3.0	6.1	4.1	1.0
Naroto - RR - 440	9.0	6.0	3.8	7.1	4.1	1.0

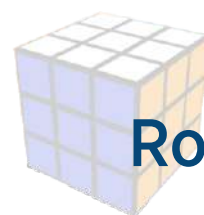
Accessories shown on machine images are not part of standard scope of supply.



Main Machine



Cooling Station



Rotocube

Application

Looking to the high demand of exclusively complex shaped products other than conventional water tanks, Naroto is pleased to introduce the ROTOCUBE model Rotational Moulding Machine having 3 / 4 fixed / Independent Arms

APPLICABLE INDUSTRIES:

Refrigeration, Water Sport , Play Ground
Material Handling, Interior Furniture etc.

USP:

Uniform Circulation of Hot Air with High Pressure to reach smallest of the cavity and deepest of the tool part, ensuring Uniform wall thickness.



Technical Specifications

Model	Floor Space (Mtrs)			Straight Arm Swing (mm)*		Offset Arm Swing (mm)*	
	L	B	H	Major*	Minor	Major*	Minor
ROTOCUBE							
Naroto - MOB - 2500	15	9	5	2300	2000	2300	1800
Naroto - MOB - 3200	17.2	12.8	5.7	3000	2800	3000	2100
Naroto - MOB - 3400	18	13	5.8	3200	3000	3200	2300
Naroto - MOB - 3600	18.7	13.5	6.0	3400	3200	3400	2400

Accessories shown on machine images are not part of standard scope of supply.

*Gross Rotating Area

Get Set Green



Get Set Green



Seasonal Radius Extruder

Application

- Radical Extruder is used for colouring (compounding) of granules for high quality compounding

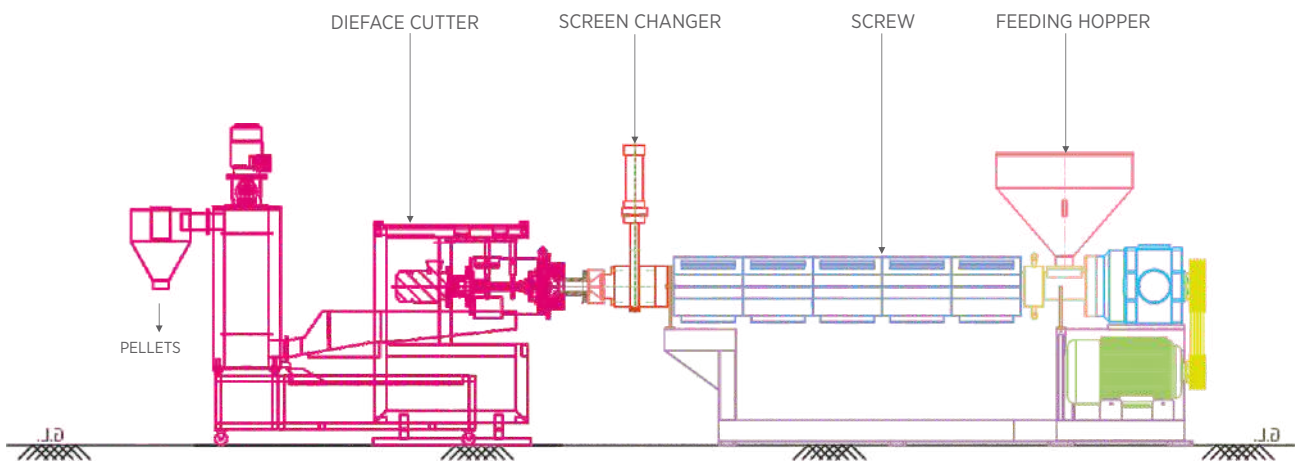
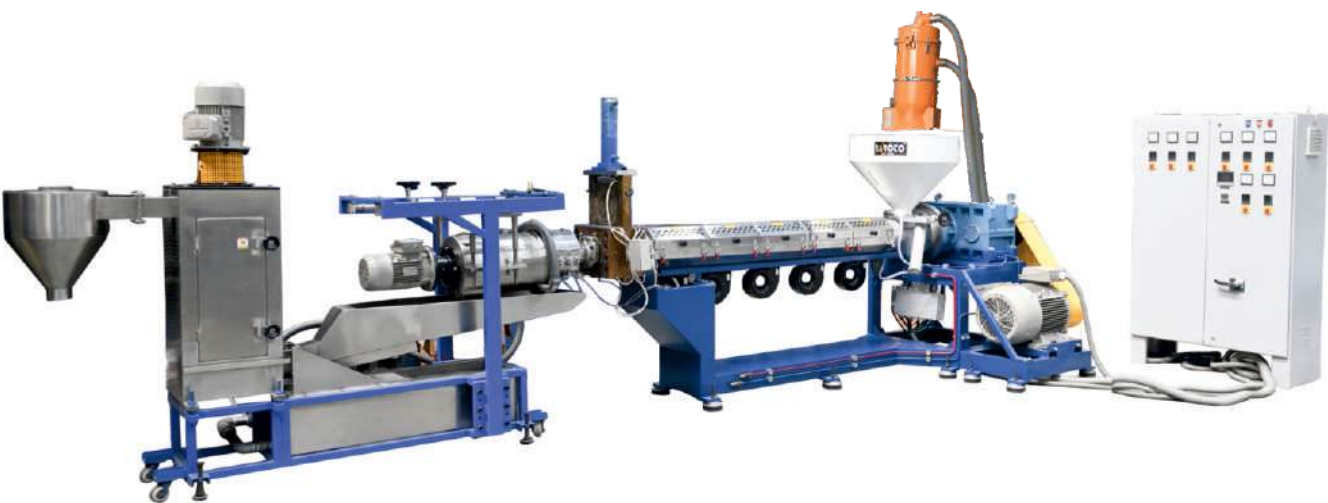
Salient features

- Cold start protection
- Screwbarel - Having Feed, Compression and Metering zone.
- Heaters are fully enclosed to ensure protection and safety
- Blowers - Maintain Barel temprature

Model

Single Screw Extruder with Die face Cutter

- Screen Changer - Filters out impurities from the polymer’s extrusion process without interrupting the process when a dirty screen needs to be changed.
- Die Face Cutter - To have consistent size of Granules resulting to production increase and heavy wastage control , Improved good dryness of Granules improving Pulveriser efficiency.
- Microprocessor-based machine Control Panel with Digital Display
- Pneumatic hopper loader
- Optional Attachments
 - Chiller/Cooling Tower, PLC , Dozing System



*LLDPE : Linear Low-Density Polyethylene
 N.B. : Production & Screw life depends on polymer materials & filler %.
 Accessories shown on machine images are not part of standard scope of supply.



Salient features

- Cold start protection
- Microprocessor-based machine control Panel with Digital Display
- Good Quality compounding
- Synchronized control for pelletizer to avoid over or under feeding of plastic strands to the Palletizer.

- Heaters are fully enclosed to ensure protection and safety
- Pneumatic hopper loader

Optional Attachments

- Screen Changer, Die Face cutter, Chiller/Cooling Tower, PLC , Dozing System

Technical Specifications

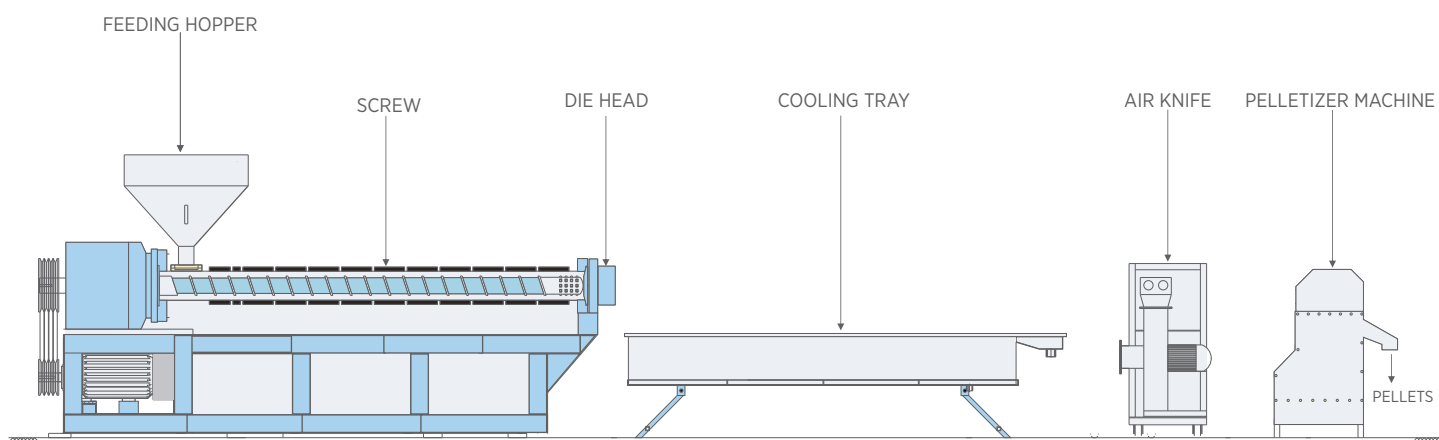
LLDPE	
MODEL NO.	PROD. KG/HR
NAROTO EX-075	140-160
NAROTO EX-090	225-250
NAROTO EX-110	350-400

Range Available

- Wide range of Extruder machines having Screw size from 75 mm to 110 mm to reprocess/color 140 Kgs-Hr. to 400 Kg-Hr (LLDPE Rotomoulding grade)

Model

Single Screw Extruder with Palletizer



Particle Perfection Pulverizer

Salient Features

- Free flowing & Fine Powder Quality Resulting, Lower Heating Time & fuel consumption in Roto Process
- Uniform & smooth powder/ particle size
- Microprocessor-based machine control panel with digital display
- Temperature indicator for monitoring and control
- Well designed Cyclonic system for ease of cleaning with bag filter (on request) arrangement
- High efficient hopper magnet provided in hopper to detect the metallic parts from the polymer
- Metal detector sensor will be provided on request
- Dust Collector System Available on Demand



- Feeding hopper Having low-level indicator
- Auto tripping system available in case of overload feeding. Main motor ampere and feeding device are synchronized to avoid tripping of the motor due to over feed



Technical Specifications of Naroto Pulverizer

LLDPE		
NAROTO - MODEL	PROD.KG/HR #20 MESH	PROD.KG/HR #35-40 MESH
LPU-30-30	130-140	120-130
LPU-40-40	150-180	140-160
LPU-40-60	220-250	200-230
LPU-60-75	260-300	240-270
LPU-60-120	450-500	360-450

RPVC/CPVC/UPVC	
NAROTO - MODEL	PROD.KG/HR #20 MESH
RPU-30-30	150-160
RPU-40-40	175-200
RPU-40-60	270-300
RPU-60-75	320-350
RPU-60-120	500-550

*LLDPE : Linear Low-Density Polyethylene * LDPE : Low-Density Polyethylene * RPVC: Rigid Polyvinyl Chloride * Master Batch : Filler, 16 MA 400 N.B. : Production & Blade life depends on polymer materials & filler %. Suggested Material feed size 4-6 mm for regrinding. Accessories shown on machine images are not part of standard scope of supply.

Application

Naroto Pulverisers are specially designed to Grind varieties of granulated material including high and low density plastics like: LLDPE (Reliance : 36RA045 & R35042, Sabic : R 50035 & M500026, IOL : 042R35A, HALENE-L : 73004T & 73005T, EL-LENE : M380/IIRU/RUP & M735RW/RWP, G-LENE : R35A042), LDPE (16 MA 400 IPCL grade for textile and wire coating), LLDPE, HDPE (26500 Reliance grade for master-batch), RPVC,CPVC,UPVC, EVA, etc.

With the support of in-house R&D, we are pioneer in the field of manufacturing Pulveriser Machine with proven technology. More than 1100+ Pulveriser Machines are successfully running all over the world.



Technical Specifications of Swift-7 Pulverizer

LLDPE	
SWIFT-7 - MODEL	PROD.KG/HR #30 MESH
SWIFT-7-30-30	180-210
SWIFT-7-40-60	330-360
SWIFT-7-50-100	500-600

Models Suitable for:
LLDPE (Rotomoulding)
R.P.V.C., U.P.V.C, C.P.V.C
Masterbatch
Powder Coating

Range Available
Wide range of Pulveriser machines having capacity from 120 Kgs-Hr. to 600 Kgs-Hr.

Optional Attachments
Pneumatic Hopper Loader / Unloader, PLC, Chiller / Cooling Tower

Scrap Cutter



Applications
 Scrap Cutters are fabricated with sturdy mild steel Structure fitted with high speed circular saw.
 These Scrap Cutters are used to reduce the size of rejected / waste articles by cutting them into small pieces to feed into the Scrap Grinder or to store them for subsequent recycling process.
 Also available with adjustable blade opening on request.



Scrap Grinder

NAROTO UNIVERSAL SCRAP GRINDERS (GRANULATORS) are commonly used by almost all the polymers processing industries like Rotomoulding, Blow moulding, PVC Extrusion, manufacturing plants to recycle waste materials through size reduction for reprocessing.



Technical Specifications

Model	Blade Size (mm)	Throat Size (mm)
Naroto - SG - 4010	400	410 x 235
Naroto - SG - 6020	600	610 x 320

Accessories shown on machine images are not part of standard scope of supply.



Blow-Recycling Shredder



Single Shaft Shredder for HDPE - Lumps & Pipes.

Model Available	Special Features
NSS - 600 : 20 HP	Special 'V' type Rotor with cutter.
NSS - 600 : 30 HP	Easy exchangeable screen.
	Low power consumption with higher output.
	Hydraulically operated pusher.
	Low cutting gap between rotor & counter blade

Screening Star Vibro

Applications
 NAROTO Vibro Screen is the most effective solution for various screening and separation applications used in plastic industry, particularly in case of reuse of the material.
 NAROTO Vibro Screens are also suitable for sieving of plastic/polymer granules for effective separation of dust particles and oversized particles. These machines, when used for Pre-processed material from scrap cutter, are ideal for separating un-cut pieces and fine dust, providing exact granules size for recycling (reuse), meeting the demands of the Plastics Industry.

Models Suitable for:
 LLDPE (Rotomoulding)
 R.P.V.C.
 Masterbatch

Range Available
 Wide range of Vibro screen machines having size from 24" to 72"
 Material : Stainless Steel / Mild Steel
 Mesh size# 16 to 100
 Single deck/ Double Deck & Also available in multi deck



Meridian Range
Moulds

NAROTO has a fully equipped work shop for mould fabrication with CNC machine facility for machined moulds, computerized designs and quality control. We have skilled personnel for sheet metal, bending machine, Argon welding, and the buffing machines to ensure the high quality standards.

We also have pilot plant for testing moulds as per stipulated quality standards. NAROTO offers moulds for products having different shapes like Vertical, Horizontal, Rectangular for water storage. The size of mould for water storage varies from small to large with maximum size up to 40000 liters.

Besides moulds for water storage products, we also offer moulds for wide range of other products including Road barricades, Traffic cone, Safety device, Insulated cooler box, Pallets, Planters, Toilets, Dustbins etc.



Table 1 Dimensions of Cylindrical Vertical Tank IS 12701 : 1996
(Clause 5.1)

Sr. No.	Minimum Net Capacity Up to Effective Height	Overall Dimeter Range	Overall Height Range	Minimum Internal Dia of Man-Hole/ Hand-Hole	Minimum Wll and Bottom Thickness	Minimum Weight of tank (Without Ltd)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
I)	200	650 - 850	490 - 690	265	3.0	7.8
ii)	300	650 - 850	700 - 900	265	3.0	9.0
iii)	400	700 - 980	700 - 950	265	3.5	15.0
iv)	500	800 - 1 140	625 - 1 025	370	4.0	18.0
v)	700	900 - 1 140	800 - 1 100	370	4.4	23.0
vi)	1 000	1 000 - 1 200	1 050 - 1 350	370	4.5	33.0
vii)	1 500	1 080 - 1 450	1 150 - 1 590	370	4.5	47.0
viii)	1 700	1 300 - 1 500	1 260 - 1 650	370	4.5	54.0
ix)	2 000	1 365 - 1 500	1 400 - 1 700	450	5.4	64.0
x)	2 500	1 380 - 1 610	1 400 - 1 810	450	7.7	81.0
xi)	3 000	1 410 - 1 800	1 640 - 2 150	450	8.1	96.0
xii)	4 000	1 450 - 1 920	1 750 - 2 400	450	10.4	147.0
xiii)	5 000	1 800 - 2 110	1 800 - 2 100	450	10.7	180.0
xiv)	6 000	1 800 - 2 200	2 065 - 2 800	450	10.7	205.0
xv)	7 500	1 890 - 2 250	2 100 - 2 930	450	10.7	239.0
xvi)	10 000	1 900 - 2 680	2 400 - 3 740	450	11.5	319.0
xvii)	15 000	2 100 - 2 680	3 100 - 4 000	450	11.5	408.0
xviii)	20 000	2 100 - 3 150	3 190 - 5 000	450	13.2	566.0

NOTE : The gross capacity of the tanks shall be at least 5 percent in excess of the minimum net capacity.

Table 2 Dimensions of Rectangular Loft Tanks (Clause 5.2)

Sr. No.	Minimum Net Capacity	Overall Length	Overall Width	Overall Height	Minimum Internal Dia of Hand Hole	Minimum Wall Thickness (Measured on) Rectangular Vertical Port and Bottom Thickness	Minimum Weight of Tank (Without Ltd)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
I)	150	650 - 820	620 - 820	285 - 485	300	2.75	6.6
ii)	200	930 - 1 130	620 - 820	285 - 485	300	2.75	7.7
iii)	300	995 - 1 200	620 - 820	285 - 485	300	2.75	11.0
iv)	400	1 150 - 1 350	855 - 1 150	335 - 535	300	2.75	13.0
v)	500	1 150 - 1 500	900 - 1 250	335 - 535	300	2.75	17.5

NOTE : The gross capacity of the tanks shall be at least 5 percent in excess of the minimum net capacity.

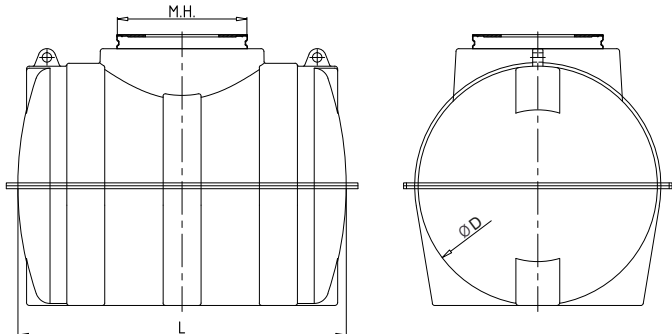
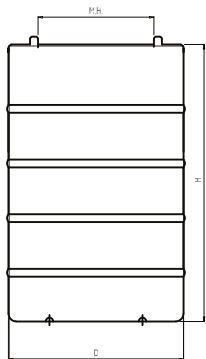


Meridian Range
Moulds



House Hold Drum Dimension

Capacity	Drum Dimension		Manhole	Thick (mm)	Weight (kg)
	ØD	H			
50 Ltr	392	500	302	2.6	2
100 Ltr	456	710	302	2.6	3
150 Ltr	510	809	302	2.9	4.5
200 Ltr	539	931	302	3.2	6



Horizontal Tank Dimension

Capacity	ØD	L	Manhole	Tank Thick (mm)	Tank Weight (kg)
150 Ltr	515	740	275	2.5	5.5
200 Ltr	595	830	275	3	8
300 Ltr	650	995	275	3.5	12
400 Ltr	745	1050	275	3.75	16
500 Ltr	805	1105	400	4	20
600 Ltr	845	1160	400	4.5	24
800 Ltr	925	1325	400	5	32
1000 Ltr	990	1455	400	5	40
1200 Ltr	1060	1530	400	5.5	48
1500 Ltr	1130	1665	400	6	60
1600 Ltr	1160	1690	400	6	64
2000 Ltr	1255	1815	465	6.5	80
2400 Ltr	1335	1910	465	7	96
2500 Ltr	1335	2060	465	7	100
3000 Ltr	1420	2135	465	7.5	120
3200 Ltr	1475	2085	465	8	128
4000 Ltr	1585	2255	465	8.5	160
5000 Ltr	1710	2425	465	9	200

Dimensions depends on mould dimensions and shrinkage*

Adorning Gems

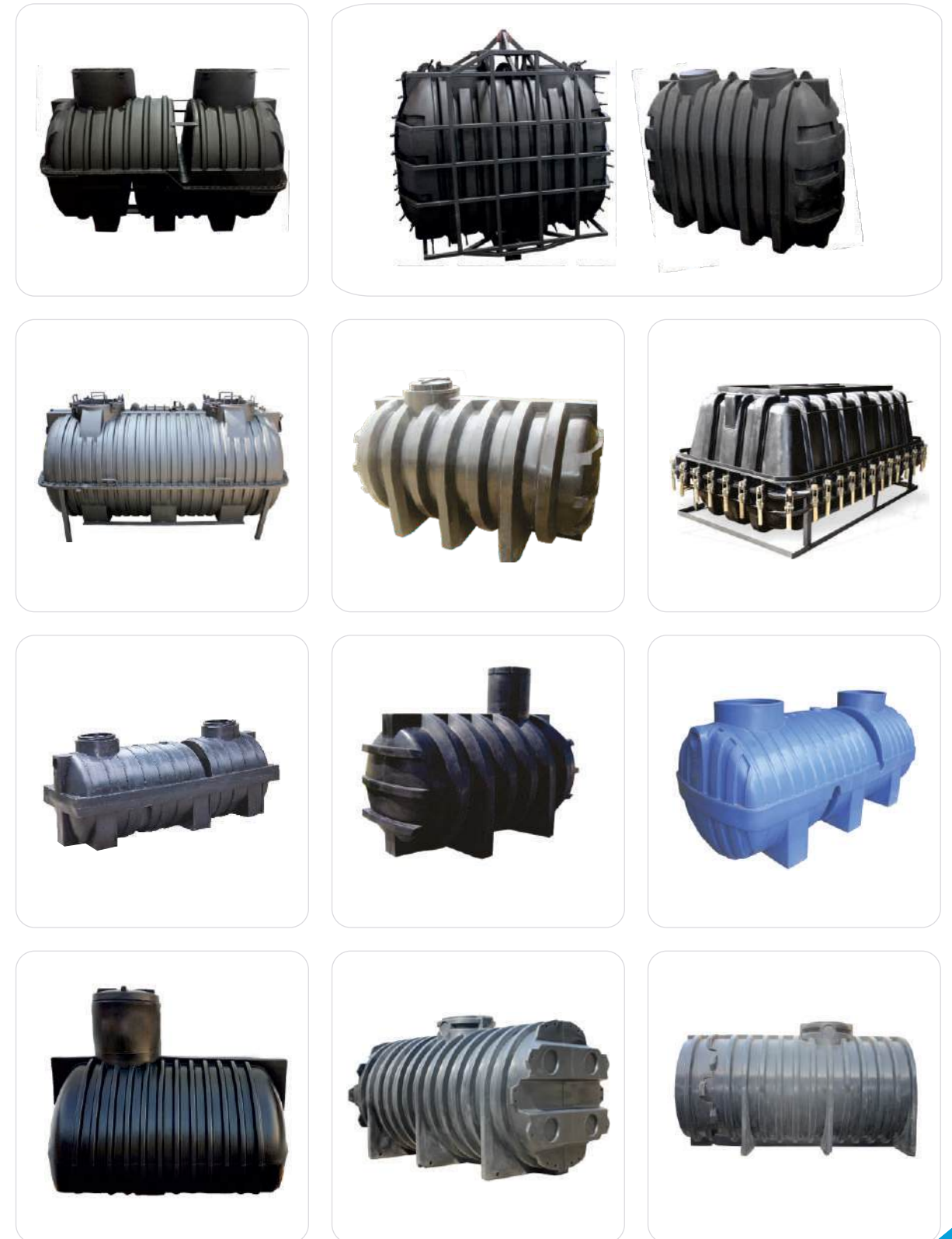
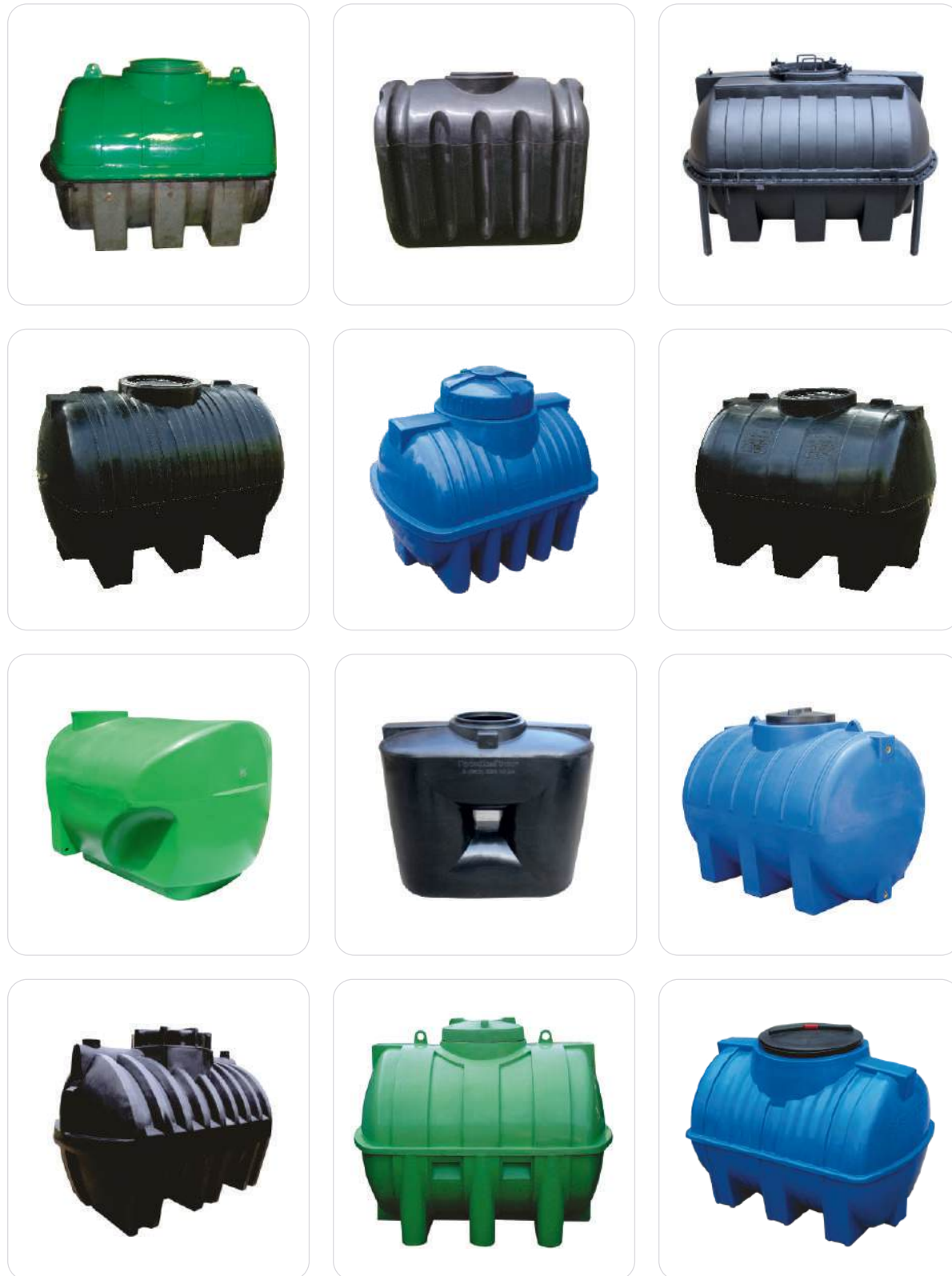
Meridian Range
Moulds



Meridian Range
Moulds



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Meridian Range
Moulds



Meridian Range
Moulds

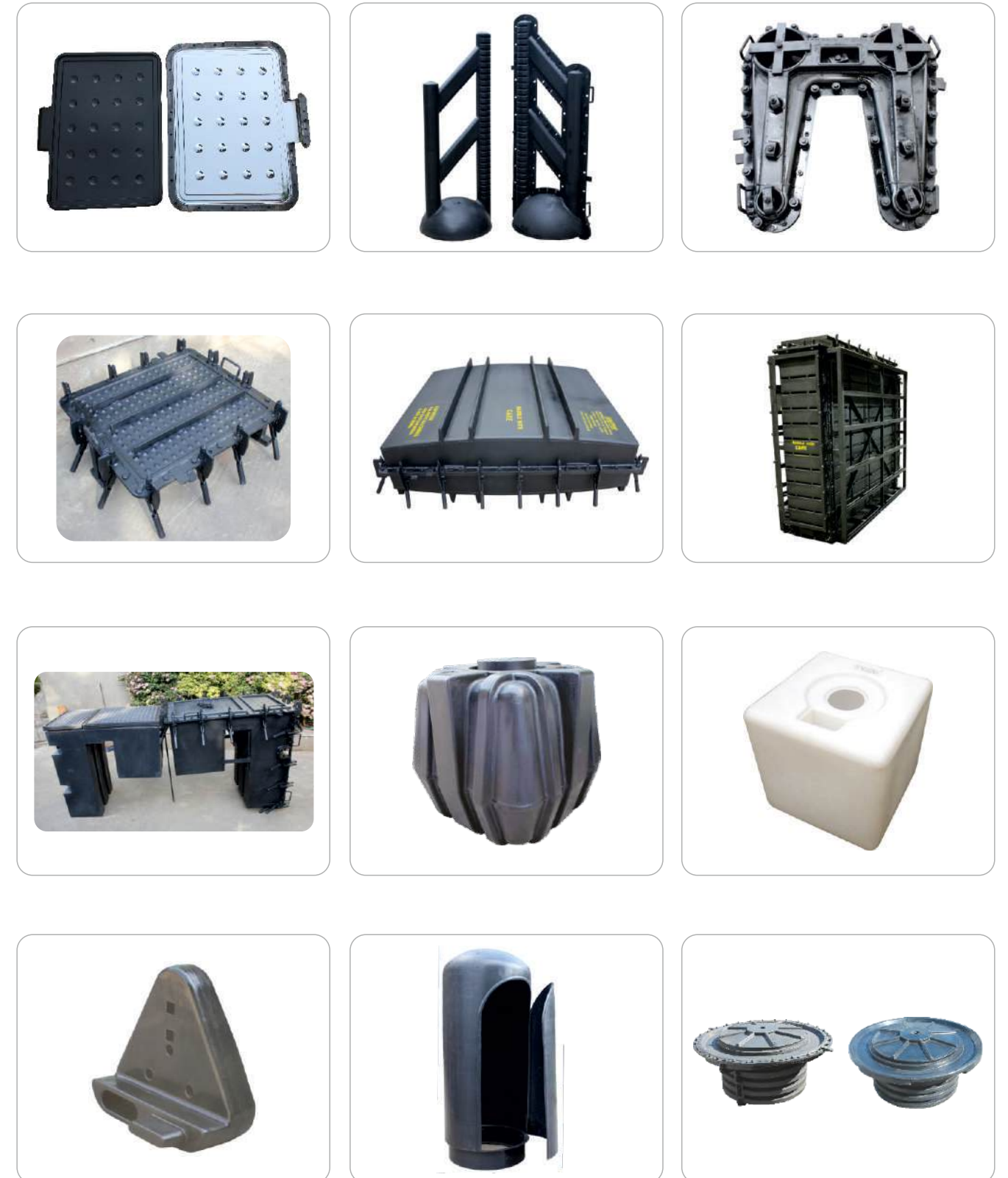


Pallet

Meridian Range Moulds



Meridian Range Moulds



Meridian Range
Moulds



Meridian Range
Moulds



Meridian Range
Moulds



Meridian Range
Moulds

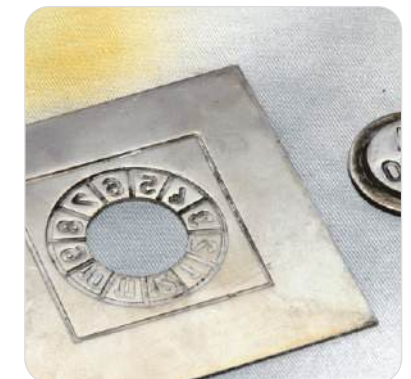




Elemental Population Accessories



Pulverizer Disc



Batch Dial Coin



Tank Outside Threaded Lid Cover



Tank Inside Threaded Lid Cover



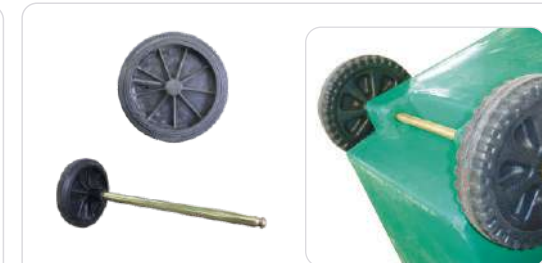
Lid Cover with Air Vent



Easy 40 Type Lid Cover



Injection Lid Mould



Garbage Bin Wheel and Shaft

Elemental Population Accessories



Brass Inserts



Torque



Elegance



Alpha



Harbour



Oxford

Tank Fittings



Elemental Population Accessories



Cooling Fan



Chiller



Lift



Clamps



Spring Bolt



Jib Crane



Air Compressor



Second Charger



Cooling Tower