

JAY CORRO PLAST manufactures JCP™ brand HDPE and PP Spiral Tank and Vessel for the last 12 years. Now a days Spiral Tanks are preferred by almost all industries especially Chemical Industries for Storage, Handling, Mixing and Transportation of Raw Materials, Acids, Alkaline solutions and Finished goods/products etc. Also fabricated tanks are used as Manhole for sewage & water pipeline distribution / collection networks.

SALIENT FEATURES:

01. Virgin Raw – Materials & Latest Manufacturing Technology: A special engineering grade High Density polyethylene (HDPE) / polypropylene (PP) is extruded into a strip and then wound spirally and continuously over a rotating mandrel to form a homogenous, seamless shell. Spiral Tanks are made on totally computerized, sophisticated & automatized machines which give them designed wall thickness with consistency in quality. The tanks are resistant to Ultra Violet Radiation of Sunlight hence; it can be safely installed outdoor with, Black Color.

02. Immunity to Corrosion

With a high corrosion resistance, HDPE/PP Tanks are inert to most chemical and do not need any extra anti-corrosive lining.

03. High Impact Strength & Durability

Spiral Tanks are extruded and spirally wounded continuously to give a homogenous construction; it has no seams that could crack under stress. Besides, they have 100% stress free construction to give excellent durability. Also it can withstand an extreme temperature range of - 40° C to + 80° C (HDPE) and +100°C (PP)

04. Maintenance Free

Due to homogeneous construction Spiral tanks are completely leak proof, which minimize the production loss due to shutdown. Tanks do not required any paint, lining or anti corrosive treatment, hence they have a long trouble free life.

05. Reasonable Cost

In spite of their special features Spiral Tanks are very reasonably priced. HDPE / PP Spiral Tanks are better alternative to tanks of FRP, Lead, Steel containers with different types of anti – corrosive lining, Stainless steel, etc.

06. Tailor Made:

Spiral Tanks are available in a very wide range of standard sizes. They can however be made in any shape and capacities with appropriate fixtures and fittings. Storage Tanks and Reaction Vessels are available as per customer's specifications with storage capacity up to 50,000 LTRS.

07. Accessories:

All accessories like Flanged Inlets and Outlets, Valves, Sight Glass, Float Level Indicator, Cap type or Flanged Manhole and its Covers etc. and special accessories like Body Flange, Puddle Flange, Baffles, Cooling Coil, Stuffing Box, and Calibrated Glass Level Indicator etc, for storage tank & Reaction Vessel can be provided as per customer's specifications.

08. Special Applications: Storage Tanks & Closed /Open Reaction Vessel, Pickling Tanks etc..

- For Storage of common acids like HCL (up to 30% conc.), H₂SO₄ (up to 70% conc.), Acetic Acid, NaOH, Phosphoric Acid, Ethyl Alcohol, Methyl Alcohol etc.
- Due to very high resistance to abrasion, tanks are ideal for handling slurries and Pastes.
- Hygienic, Non toxic and non-absorbent, Spiral Tanks do not impact any taste or odour. Due to smooth walled surface, it is easy to clean and does not promote growth of Bacteria. This makes it suitable for Pharmaceutical and Food industries.
- Rectangular Tanks are also used as pickling tanks and available with MS support structure.
- Incredibly lightweight Spiral Tanks with special Design, Accessories and System are easy to handle, and low in Installation and Transportation costs. So Spiral Tanks are most preferred for Reaction Vessels in Chemical Industry.

TECHNICAL CAMPARISON BETWEEN SPIRAL TANK & MOULDED TANK:

	SPIRAL TANK	MOULDED TANK
1. Material	HDPE G.M. : 1050 virgin	HDPE / LDPE / Other grade Moulding
2. Material Characteristic	Versatile material and can withstand many corrosive chemical at rough handling condition.	Suitable for water storage
3. Manufacturing Technique	<ul style="list-style-type: none"> Spiral tank's shell is manufactured under fixed process parameters. Shell is manufactured by extrusion of strips and winding on the drawn. Molecular orientation is on radial direction, hence more Mechanical strength and no inbuilt stress. 	<ul style="list-style-type: none"> Rotational moulding whereby mould is rotated under given speed and Molecular Orientation is on Haphazard direction. Tank's shell is removed by sudden cooling, where by inbuilt stresses are developed.
4. Design	<ul style="list-style-type: none"> Tanks are designed as per service condition, depending upon Corrosion, Hydraulic Stress, Stirring speed, and temperature. Thickness of tank is increased from Top to Bottom as Stresses are increased. The sizes of tanks are as per customer's requirement. Baffles, Nozzles and stuffing box can be welded on Tank as per customer requirement with Extrusion welding. 	<ul style="list-style-type: none"> Tanks are available in standard sizes, and in single thickness only. Not possible Not possible
5. Reparability	Easily repaired at site by Extrusion Welding.	Difficult to repair
6. Testing & Quality	Tanks can be tested for welding at top and bottom in the same manner as steel tank. Main body is spirally wound and Mechanized wound. Vertical Open Tank, Vertical closed Tank.	Will depend upon forming technique and Creep and cold flow can affect Dimension.
7. Type of Tanks	Horizontal Tank Rectangular Tank, Reaction Vessels with flanged top, Conical bottom etc.	Only limited types of Tanks are available. Gas Tight Construction is not possible.

CAP (LTRS.)	DIA (MM)	HT (MM)
500	1000	700
1000	1200	900
1500	1200	1400
2000	1200	1800
2500	1600	1300
3000	1600	1550
4000	1600	2000
5000	2000	1600
7500	2000	2400
10000	2000	3200
10000	2400	2250
15000	2400	3300
20000	2400	4500
25000	2400	5600
30000	3000	4500
35000	3000	5000
50000	3600	5000

