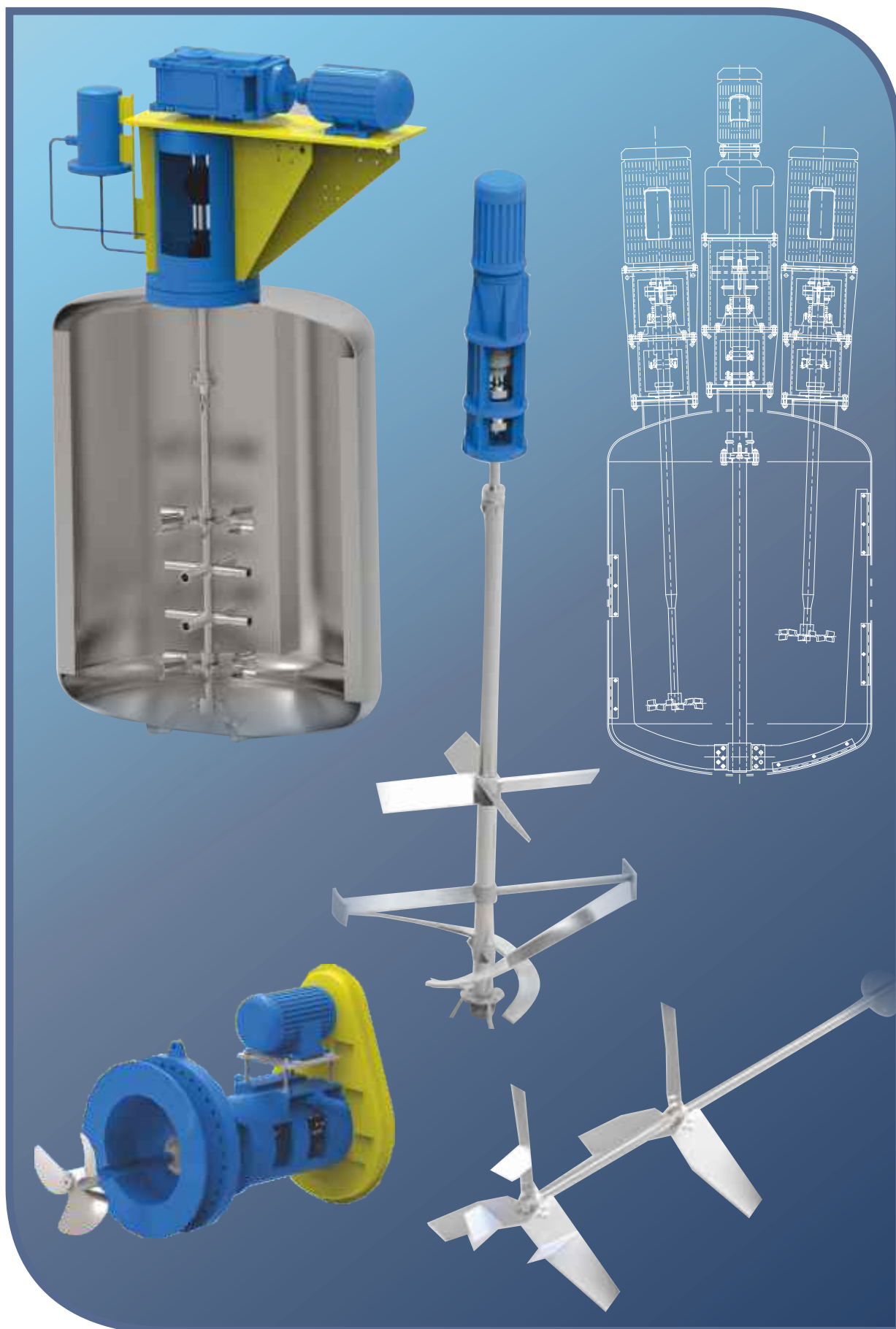




Galaxy Industrial Equipments Pvt. Ltd.

THE FLUID MIXING PEOPLE

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FLUID MIXING TECHNOLOGY



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Galaxy Industrial Equipments Pvt. Ltd.

THE FLUID MIXING PEOPLE

Galaxy industrial equipments is a specialized company in Design & Manufacturing of fluid mixing equipments. Our continuous quest for mixing performance improvement together with the experience acquired, enables us to offer a varied range of mixing solutions. Our process centric solution approach makes us solve most of the critical problems of agitation in all types industries.

Thorough understanding of process requirements as well as detailed consideration of customer requirements makes us reliable and economical solution provider.

We are specialized in almost all the fluid mixing industry segments such as

- **Chemicals & Speciality Chemicals**
- **Sugar, Distillery & Starch**
- **Paints & Coatings**
- **Mineral Processing**
- **Thermal Power**
- **Adhesives & Rubber**
- **Pharmaceuticals & Personal Care**
- **Water & Waste Water Treatment**



Impeller Spectrum for all types of Fluid Mixing Applications





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MULTI PHASE REACTOR

HYDROGENATION REACTOR

Multi phase reactor with top entry mixer for any dimensions. A wide range of impellers (gas dispersing as well as high flow turbines) and a wide choice of double mechanical seals. Design available for both the gas charging options, ring spargers and gas induction through hollow shaft.



CARBONATION REACTOR

Galaxy multi phase reactors are made for high system security, low service requirement and low operating cost. Multi-phase reactor design for hydrogenation, carbonation, ethoxylation, oxidation & many more...



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TOP ENTRY MIXER

Top entry agitators with or without steady bearing with different sealing devices for atmospheric or pressurized vessels & reactors. Single mechanical seal, double mechanical seal, lip seal or gland packings along-with bearing housing options are available. The seal may be removed by a spacer coupling with-out dismantling the agitator from vessel.



Top entry agitators for wide range of applications ranging from mild mixing for flocculators to violent mixing for reactors. We cater to all segment of process industry where-in liquid agitation is involved.



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HIGH SPEED DISPERSERS

STATOR-ROTOR DISPERSERS

Top entry homogenizers, stator rotor systems for high shear applications in chemical, food and pharma industries for emulsification of immiscible liquid or powders dispersion



COWL DISC HIGH SPEED DISPERSERS

High speed dispersers with open cowl disc (saw tooth) impeller for wide range of dispersion duties. Dispersion of paints, pigments & resins. Dispersion of inorganic powders in water & solvents. Lifting options with pneumatic or hydraulic cylinders are available for HSD's.

APPLICATIONS

- Pigment Dispersion
- Water / Solvent based Paint Dispersion
- Adhesives Manufacturing
- Food Processing
- Emulsification



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TWIN SHAFT DISPERSERS

The galaxy twin shaft disperser is particularly suitable for applications requiring incorporation and dispersion of solids. While the slow speed anchor impeller provides excellent overall mixing and improved heat transfer, the impellers arranged on the central shaft are responsible for high shear rates and local dispersion.

A high degree of flexibility is achieved with the co-axial arrangement of the agitators in combination

with a compact drive construction. A hydraulic lifting option may be incorporated for central high speed disperser.

Reckoned for trouble-free operations, the equipment made available in this range is extensively used for manufacturing plastic emulsions, solvent based paints and eco-friendly water based paints



APPLICATIONS

- Pigment Dispersion
- Water / Solvent based Paint Dispersion
- Ink Manufacturing
- Adhesives Manufacturing



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HIGH VISCOSITY AGITATORS

Galaxy is having rich experience & technical expertise in mixing of high viscosity liquids & slurries. With wide variety of impeller designs suitable for viscosities up-to 150000 cPs galaxy provides the optimum mixers & blenders for the processes involving high viscosities.



Typical Applications

- Epoxy Resins
- Adhesives
- Hot Melt Adhesives
- Silicone Rubber
- Latex And Polymers
- Paints And Varnishes
- Sealing Compounds
- Insulating Materials
- Building Materials
- Cosmetics



AGITATORS FOR PHARMACEUTICALS & PERSONAL CARE

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Galaxy supplies a range of standardised & customized, fermenters for your microbial culture needs - bacterial or yeast.

Fermenter range and technical specifications

- unit sizes: 100 to 20000 ltr working volume
- h/d : variable up-to 3:1
- defined surface finish (dry grinding) to $ra \leq 0.8 \text{ m}$



Typical Applications

- Seed, Bump or Inoculum Tanks
- Fermentation Products Holding
- Antibiotics
- Medicants Antiseptics
- Cosmetics And Perfumes
- Insecticides & Disinfectants
- Compounds & General Processing
- Shampoo
- Shower Gels
- Creams And Lotions



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SLURRY MIXERS (LIQUID-SOLID MIXING)

Slurry mixers for wide variety of applications ranging from mild mixing for flocculators to violent mixing for leaching & solvent extractions. We cater to all segment of process industry where-in liquid-solid agitation is involved.

We expertise in mixing of Newtonian and Non-Newtonian solid liquid slurries.



Typical Applications

- Mineral Processing
- Alumina Precipitators & Predesilication
- Iron Ore Benefication
- Ash Slurry Mixing In Hcsd Systems
- Leaching & Solvent Extraction
- Slurry Mixers For Flue Gas Desulphurization
- Slurry (liquid-solid) Reactors



Swivel Angle Side Entry Mixer

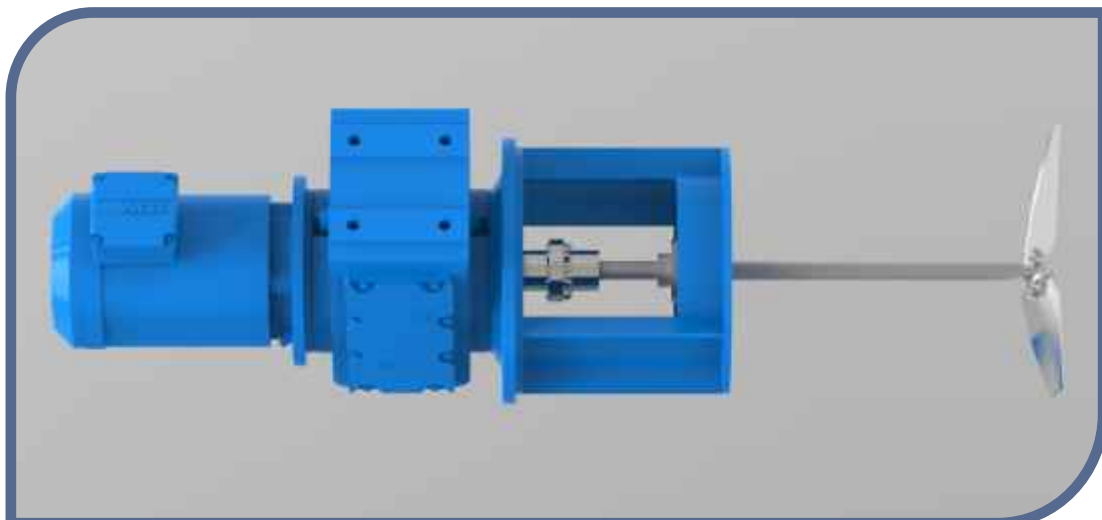
Side Entry Mixer with swivelling feature allows to vary the shaft angle by 15° on either side of the mixer. This enables tank floor to be directly scored by the high fluid flow produced by the impeller. Swivel angle side entry mixer driven by belt pulley – motor & swivelled with hard & robust swivel ball.

The mixer angle can be varied manually as well as with automatic swivel actuator arrangement.



Fixed Angle Side Entry Mixer

Side entry mixers with geared motor. Single or double (cartridge type) mechanical seal according to application & process requirement. A shut-off device gives the flexibility to replace the mechanical seal without emptying the tank. Applications in mixing the liquids or suspending the solids in large tanks with multiple side entry mixers.





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MIXING VESSELS

Galaxy supplies a wide variety of stainless steel mixing reactors/vessels with mixers/agitators mounted on to standard galaxy vessels, customised galaxy vessels, or custom stainless steel vessels designed to meet your individual specification.



Options:

- High Pressure Reactor with Agitator (Hemispherical Dished End)
- Pressure vessels with Agitators (Ellipsoidal Dishend Torispherical Dished End)
- Limpeted Reaction Vessels
- Jacketed Mixing Vessels.



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PRESSURE & STORAGE VESSELS

Galaxy supplies a wide variety of stainless steel pressure vessels and storage vessels. All the pressure vessels & storage vessels are designed as per ASME Section VIII, Div I / IS: 2825 or any other international standard.

Options:

- Flat, Flat Sloping, Cone Or Dished Vessel Bottom
- Jacketed Pressure Vessels
- Limpeted Pressure Vessels
- Electro-polished
- With Ladder, Platform & Railings

Typical Applications

- Chemical Pressure Vessels
- Gas Storage Vessels
- Air & Nitrogen Receivers
- Refrigeration & Cryogenic Applications
- Chemical Storage Vessels
- Pilot Reactor with Hydraulic/Pneumatic lifting Arrangement - with skid mounted unit



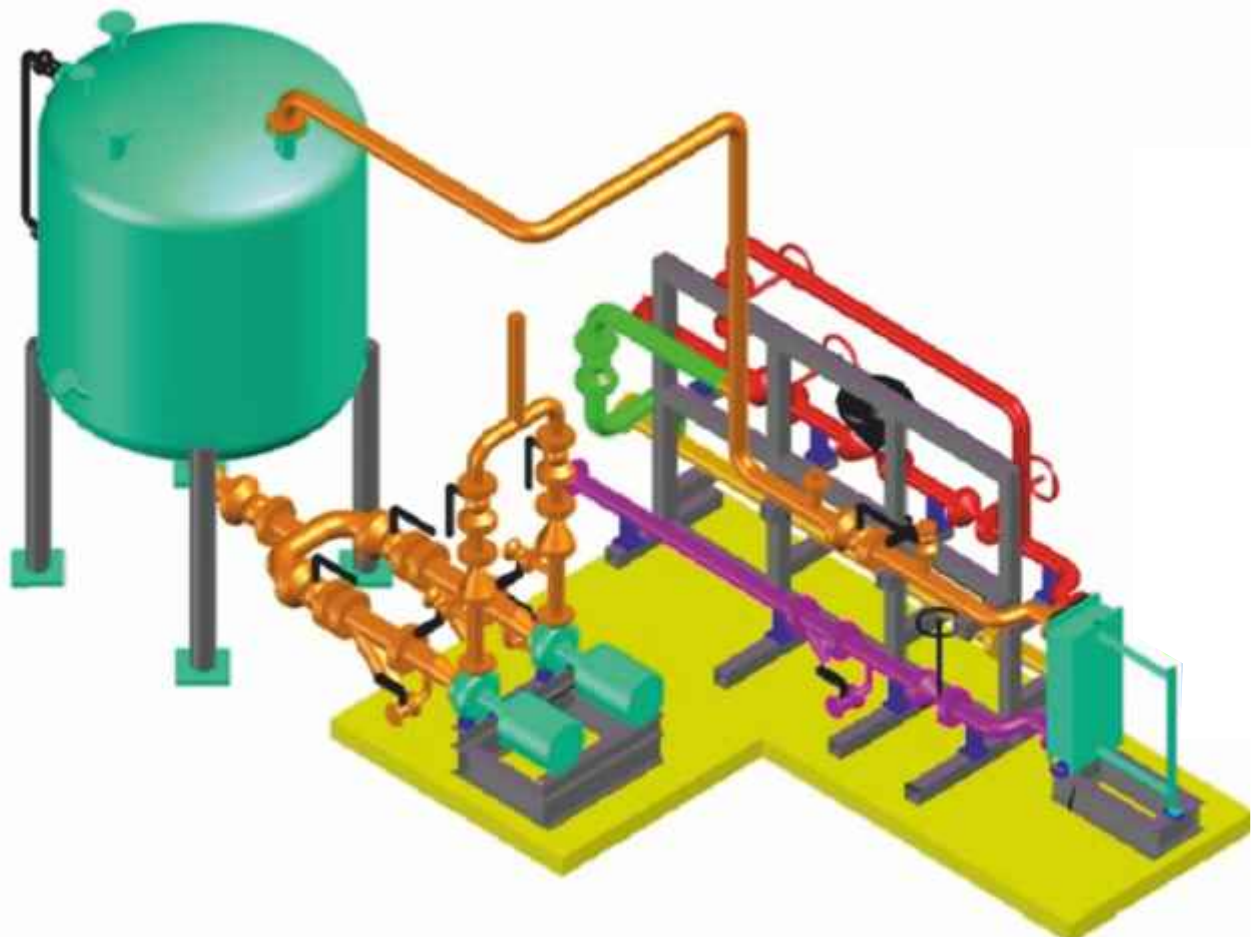


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Modern processing facilities are continually pushed to increase productivity and to produce a consistent and safe product—all with less time for maintenance and sanitation. Galaxy supports you in solving process and product issues, creating & establishing new product pilot plants.

Galaxy Provides Process & Pilot Skids For Various Applications,

- Hot Water Generation Skid
- CIP
- SIP
- Pilot Plant Skids
- Mixing & Blending Skids
- Heating Systems
- Dosing Systems





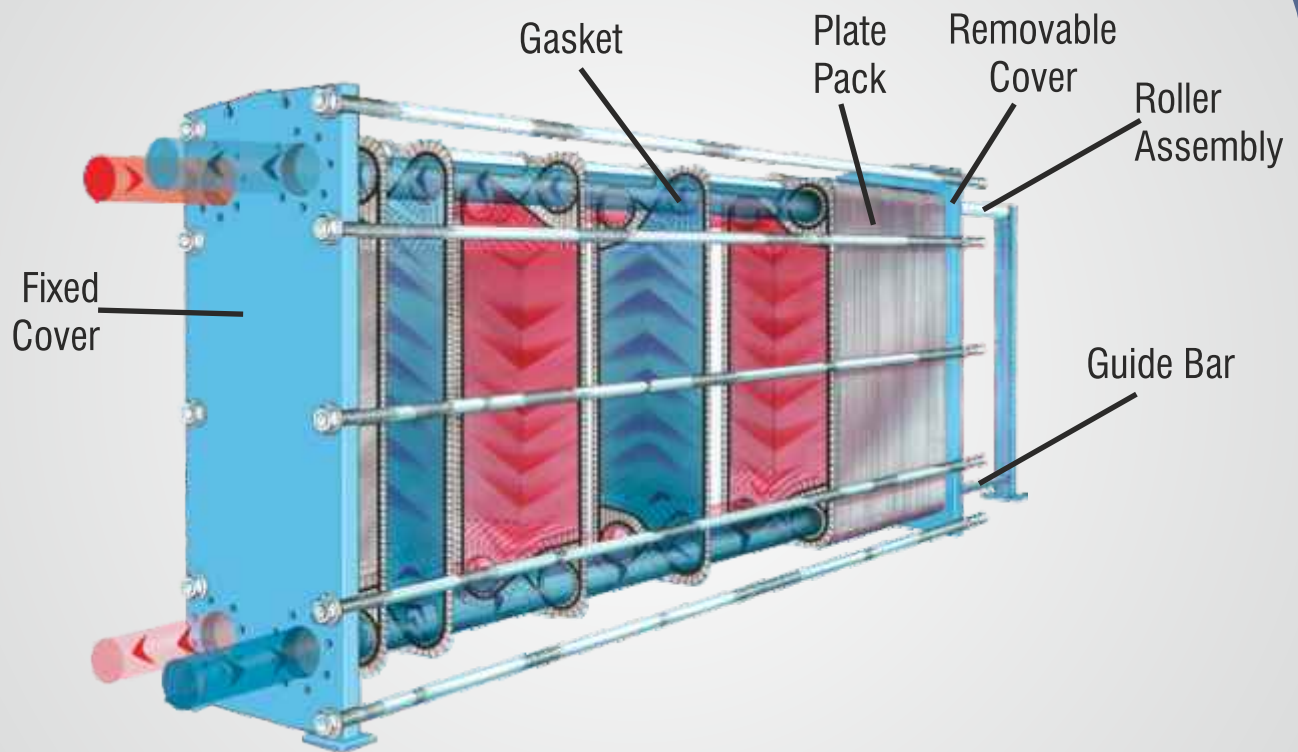
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HEAT EXCHANGERS

Galaxy design, supply & service various heat exchangers viz shell & tube, plate heat exchangers, semi welded & welded plate exchangers.

Salient Features Of Galaxy Heat Exchanger

- Flexible In Design
- Suitable For High Temp. & Pressure Compatibility
- Can Handle High Level of Particulate Material
- Mechanically simple in Design
- Comparatively Low In Cost
- Suitable For 2-phase Application.





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