



INGLOTECH

Specialists in High Quality Pumps and Systems



**MULTIPHASE PUMP SYSTEMS &
ENGINEERED SOLUTIONS**

Who are we?

INGLOTECH has more than 80 accumulated years of experience that covers all existing Upstream Multiphase Boosting applications worldwide. The right selection of the core technology, design, engineering and professional project execution of Multiphase Pumping (MPP) systems, has been proven through our rich portfolio of projects with different challenges and process demands. Our system integration operations relies on high quality driven partners, experts and manufacturers from different geographies; the Mission is to create effective synergy between engineering, fabrication and technology suppliers, to build reliable and cost effective MPP packages for the high demands and tough services associated with the upstream Oil and Gas Industry.

From Concept



To Reality





MPP Systems Benefits:

- ✓ **Increase** Production by reducing surface backpressure; Typically up to 30% increased well flow (varies based on site conditions)
- ✖ **Minimize** surface facilities footprint and complexity.
- ✓ **Restore** struggling and declining wells to optimal production; Improve well performance and extend production life.
- ✓ **Provide** portability and flexibility to surface equipment for future field expansions.
- ! **Prevent** high pressure wells backing out low pressure well; optimize and extend usage of existing surface flow lines.
- ↓ **Decrease** CAPEX and OPEX Increase Reliability and Operational Flexibility.



MPP Systems Features:

- 🔍 Full Stand Alone scope and Fit for Purpose design.
- ✓ State of the art pumping technologies with the highest efficiencies.
- 🔧 Selection of the most optimal and reliable equipment for the application.
- 📏 Capable of up to 100% GVF and solid handling.
- 📦 Compact and portable design.
- 📱 Local and remote operation; fully integration with SCADA is possible.
- ☔ Suitable for Tropical or Arctic environments.
- 🕒 Cartridge design, reduce the maintenance time.
- 🔄 Pre-tested systems to minimize field commissioning work.



MPP Systems Features:






Conventional Technology

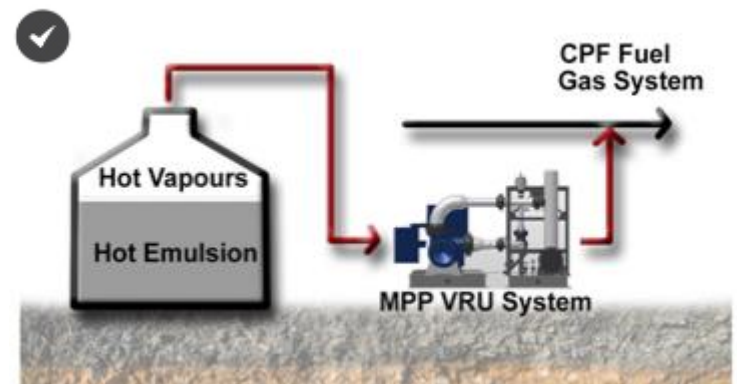
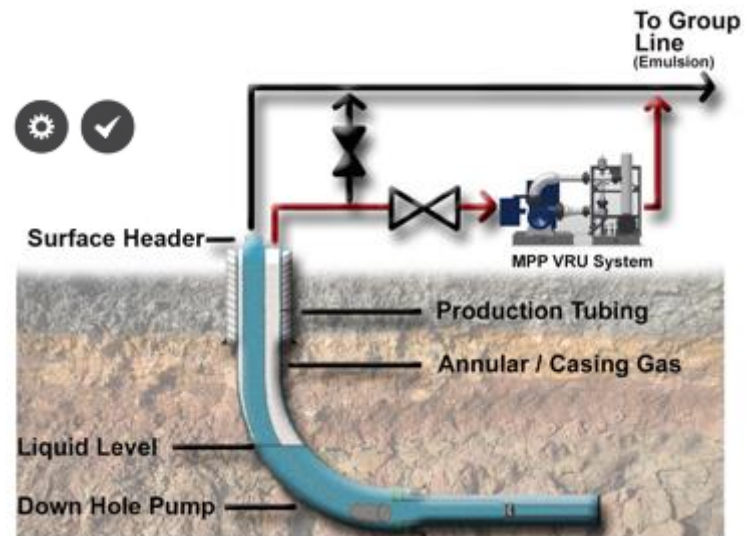
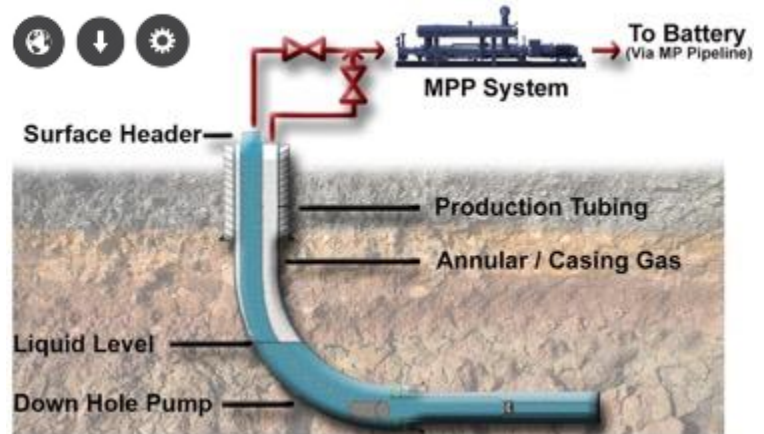


Multiphase Boosting Technology



MPP Systems Applications:

-  Crude Oil, Upstream Multiphase Boosting.
-  Tanks Hot Vapour Recovery (SAGD and CSS)
-  Declining and Mature Wells Backpressure Control.
-  Wet Gas Compression.
-  Well Casing Hot Vapor Recovery.



MP-PCP Series

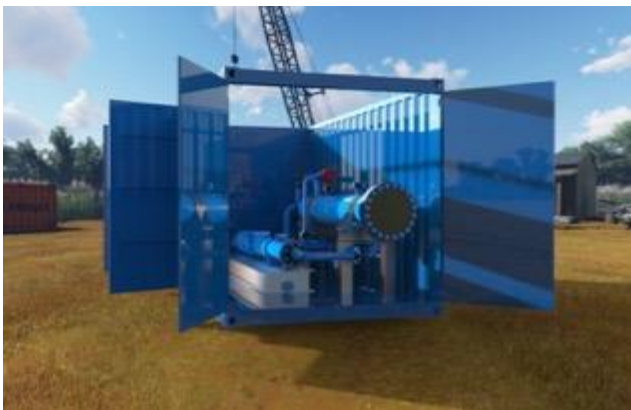
Systems based on Progressive Cavity Pumps. For low to medium flow rates, differential pressures and temperature.



INGLOTECH MP-PCP System - Specification Datasheet

| | |
|------------------------------|--|
| Core Pumping System | Model: N 240-12V / B2-L8-H0-IE : |
| Piping Design Code | ASME B31.3 |
| Pressure Rating | ANSI 150# and 300# |
| Flow Rate | Up to 1040 USGPM (Actual) |
| GVF | Up to 100% |
| Differential Pressure | Up to 340 PSI |
| Operating temperature | Up to 210 F |
| Power Required | Up to 300 HP |
| Driver | Electric Motor or Engine (Gas or Diesel) |
| Speed | Variable (up to 300 RPM) |
| Foot Print | 20 x 11 ft |
| Connexions | 6 in RF Inlet and Outlet |
| Instrumentation and controls | Pressure, Temperature, vibration and level monitoring . Main controller and operation based on suction pressure. Alarms and Trips for equipment and personnel protection. Robust MPP Control System and Philosophy |

MP-PCP Series (Container Execution)



MP-TSP Series

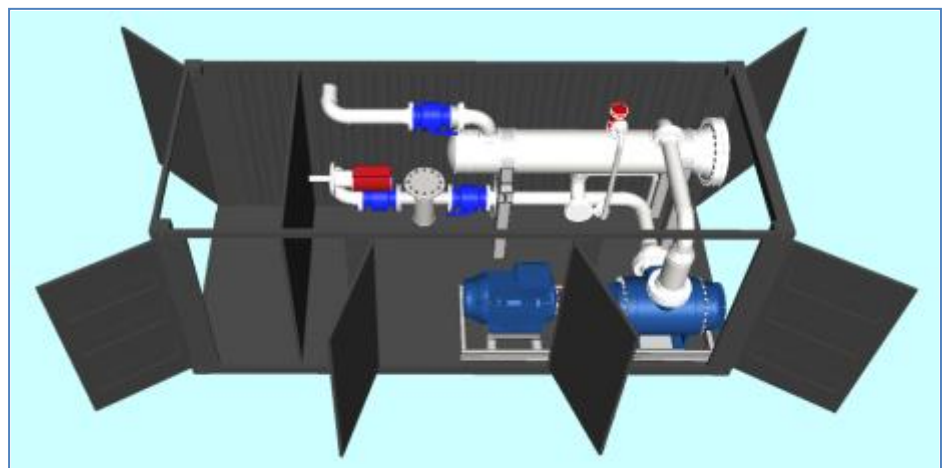
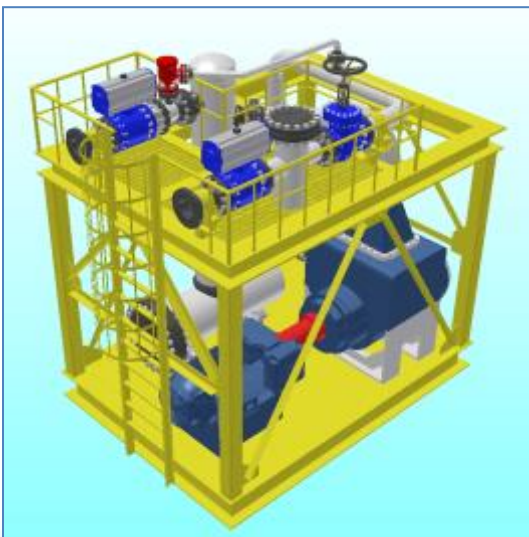
Systems based on Twin Screw Pumps.
For medium to high flow rates, differential pressures and temperatures.

INGLOTECH MP- TSP System - Specification Datasheet

| | |
|------------------------------|--|
| Core Pumping System | DSP-M-240 |
| Piping Design Code | ASME B31.3 |
| Pressure Rating | ANSI 300# and 600# |
| Flow Rate | Up to 2300 USGPM (Actual) Note: Higher Flows and Differential Pressure available, per project specifics |
| GVF | Up to 100% |
| Differential Pressure | Up to 550 PSI |
| Operating temperature | Up to 210 F |
| Power Required | Up to 750 HP |
| Driver | Electric Motor or Engine (Gas or Diesel) |
| Speed | Variable (up to 2400 RPM) |
| Foot Print | 10 x 15 ft |
| Connexions | 6 in RF Inlet and Outlet |
| Instrumentation and controls | Pressure, Temperature, vibration and level monitoring . Main controller and operation based on suction pressure. Alarms and Trips for equipment and personnel protection. Robust MPP Control System and Philosophy |



MP-TSP Series (Container Execution)



Cartridge Assembly Unit

INGLOTECH has developed, together with key partners, a series of high quality and high performance **Twin Screw Pumps Cartridge Units, made in Germany**, to retrofit and enhance in place, existing or used twin screw pumps. End users can also rely on our portfolio of specialized and high quality **Alternative Critical Spare Parts**, which would provide flexibility of sourcing, with the current or higher quality standards, to its routine or major maintenance operations.



Advantage of IngloTech's Cartridge unit:

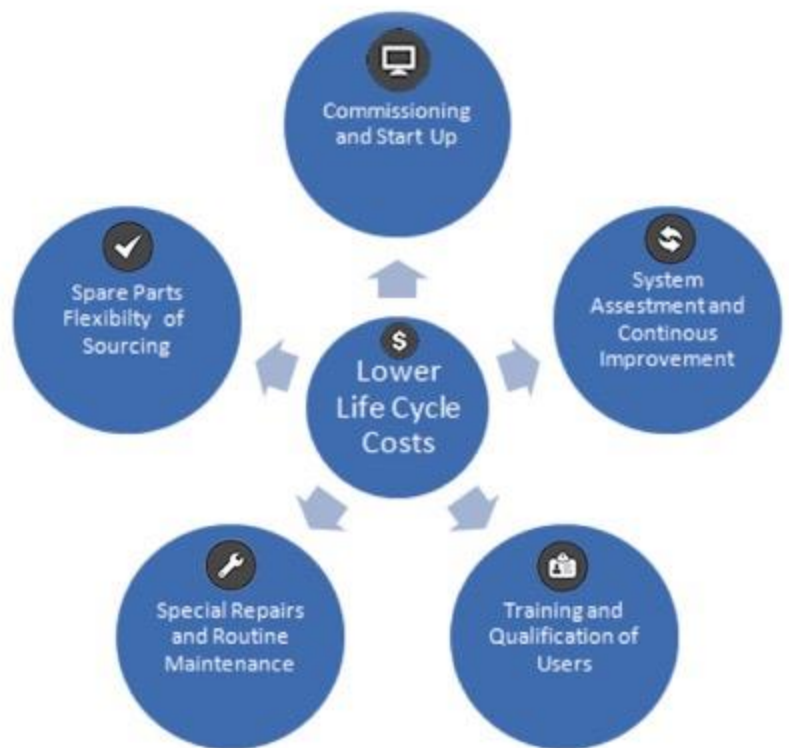
- ✓ Increased production because of higher efficiency due to patented screws profile.
- ✓ Reduction of overhaul time and resulting cost due to "Plug & Pump" design.
- ✓ Customized solution, our cartridge unit could be installed in any Twin Screw pump with replaceable liners.
- ✓ Designed and engineered according to our customer application and operating parameters.
- ✓ Based on our high quality standards, the cartridge unit are certified with performance, test reports (witnessed or unwitnessed) and material certificates



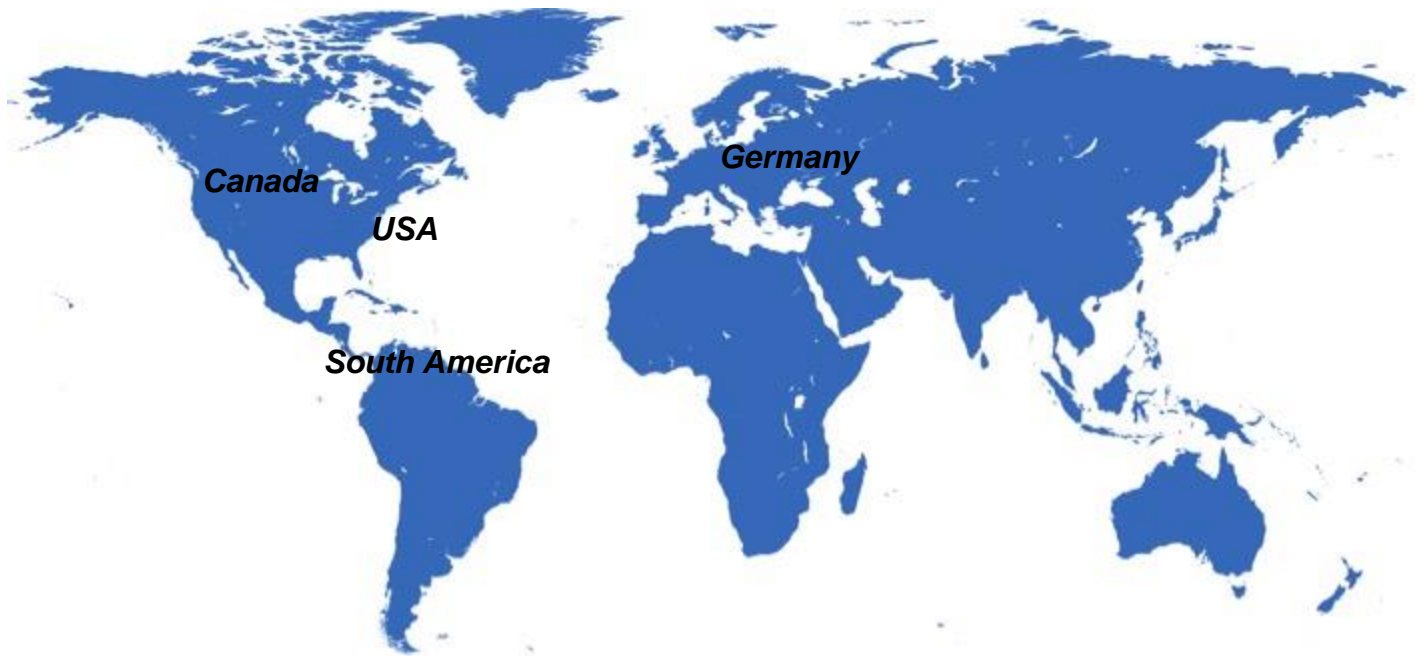
Inglotech's Wide Range of Services:

Service, Expertise and Commitment to Quality, focused on the users operations. The most experienced engineers and experts dedicated to **Reduce The Life Cycle Costs** of critical MPP systems. We transform customer relationships into long terms alliances bonded by honesty and honouring mutual responsibilities and expectations. An integral and comprehensive array of specialized services are provided to all our customers, with the end goal of lowering maintenance and energy costs, increase Up Time and optimize field production. Our services and engineered solutions are available to new or existing users of MPP technologies and Twin Screw Pumps, covering the following important areas of after market:

- ✓ **Commissioning and Start-Up Services.**
- ✓ **Troubleshooting and system assessment**
- ✓ **Engineered Solutions for continuous Improvement.**
- ✓ **Operations and Maintenance, Training and Qualification to the end user.**
- ✓ **Special Repairs, Overhauls and Routine Maintenance**
- ✓ **Alternative High Quality Spare Parts sourcing and Inventory management**



INGLOTECH Around The World



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