

COMPANY PROFILE

Transcend Solutions develops customized, advanced separations technology for process optimization in the hydrocarbon production and processing industries. We combine separations, process engineering and operating expertise to develop root cause solutions for endemic process issues.

TECHNOLOGIES

Transcend Solutions has developed technologies that can improve fluid quality, extend online life, improve operator interface and operability and reduce disposal costs

Solid-Liquid Separations

Particles are entrained and created in liquid streams by a variety of processes. The effective removal of trace levels of tiny contaminants is very challenging. Often, these separations require the use of disposable devices. As a result, operator interface, online life, ease of operation, disposal of spent elements are all important factors in the design of an effective separator.

Solid-Gas Separations

Particulate removal from gas streams is an essential and very challenging unit operation particularly in gas production, processing and transmission. These separations require the use of disposable devices in high pressure and large vessels. . Ultimately, effective particle removal improves the operation of the various unit operations associated with those gas streams

Liquid-Liquid Separations

When two immiscible liquids are contacted, they can form stable physical emulsions. Separating physical emulsions requires using the: (1) surface energies, (2) densities and (3) viscosities of the two liquids. Transcend Solutions has developed the capability to effectively separate liquid-liquid

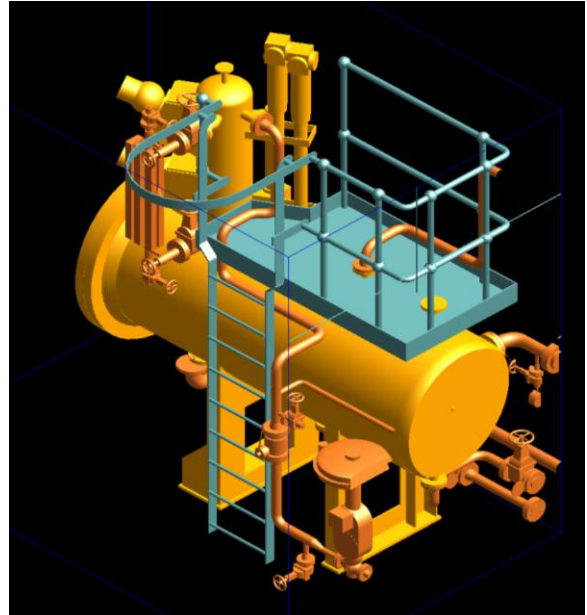


Figure 1. Example of typical hardware with associated piping, platform

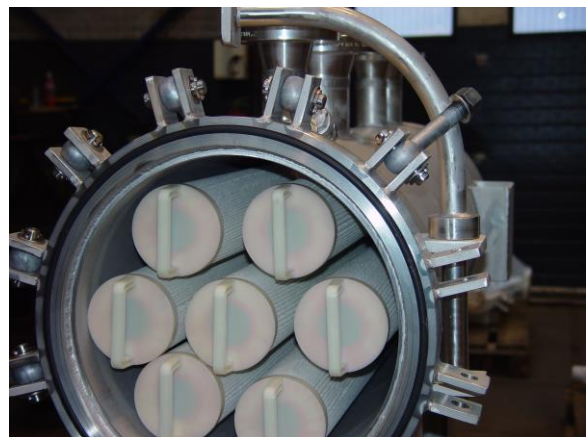


Figure 2. Example of typical hardware (pressure vessel) with separation software internals

emulsions, comprised of exceptionally small droplets, in a system with tiny specific gravity differences, resulting in an unparalleled ability to purify liquid-liquid emulsions and dispersions

Liquid-Gas Separations

Liquid droplets in gas streams are highly susceptible to shear and shattering into aerosols. These liquid aerosols can affect downstream unit operations such as compressors, absorption columns, molecular sieves and other unit operations. The aerosols can have surface energies that span the spectrum, and become susceptible to thermodynamics and phase changes. Transcend Solutions has developed the capability to identify, measure and effectively separate the most penetrating aerosols from these gas streams.

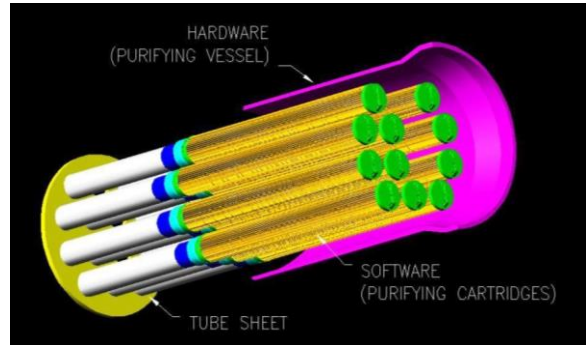


Figure 3. Hardware (pressure vessel) showing internal software (separation elements)

MANUFACTURING

Software

We manufacture internal elements designed for the separations described above, in Houston. These elements fit within pressure vessels. Our rapid response capability allows us to design, develop and deliver novel designs or upgrades to conventional designs in days.

Hardware

We provide specifications for pressure vessel design and coordinate with quality fabricators to supply (ASME code) pressure vessels, pairing the hardware with our customized internals, effectively providing a turnkey separations solution. We also license our technologies to allow end-customers or EPC firms to purchase the pressure vessels from their preferred suppliers.



Figure 4. Transcend Solutions Global Headquarters

CONTACT

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