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## Frac Pumps

MTT's momentum has remained unmatched. As head of technology for our oilfield service partners, MTT designed and built the first fully integrated "Frac Stack Pack". These frac units use a 3,850 HP turbine to drive a 2,000 to 2,700+ HHP pump. Due to its small size and weight, MTT can customize any type of frac configuration whether for land-based or offshore use.



Frac Unit Skid Designs and Options



19,000 Hydraulic HP on MTT's test dock in Louisiana. Left to Right:

2 trailers each with double 2000 OFM triplex pumps. 8,000 HHP total. 15,400 turbine HP.

2 trailers each with double 2250 National triplex pumps. 9,000 HHP total. 15,400 turbine HP.

1 trailer with double 1000 SPM quints. 2,000 HHP total. 2,800 turbine HP. Plus 420 HP pony turbine for hydraulics.

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## Frac Stack Pack Specification

**Engine:** T-55 turbine engine  
**Power:** 3,850 HP

**Hydraulic Horsepower:** 2,000 - 2,700+ HHP  
**Rate:** Up to 48 BPM  
**Pressure:** Up to 20,000 PSI

**Emissions:** 80% less NOx and CO than diesel engines running on #2 diesel fuel

**Fuel:** Runs on #2 diesel and bio-fuel up to B-100

**Natural Gas:** Fuel conversion available for field gas, CNG and LNG

**Transport:** Frac packs are air transportable



19,000 Frac HHP with two Blenders and a Data Van



## News

### Latest Products:

MTT Frac Pumps

MTT Blender Units

MTT Fluid, N2 and Chemical Units

MTT Turbine Nitrogen Pumps

Drill Water Evaporation Process

MTT Turbine NitroGEN

MTT Turbine PowerGEN



## Letters of Endorsement

BIC, the Business and Industry Connection, wrote this glowing endorsement of MTT as the manufacturing entity of sister company, Turbine Stimulation Technologies. MTT's contribution to fracking is hailed as "The Jet Frac Revolution".

Click [here](#) to download...



Frac job in East Texas. 19,000 HHP with 125 BPM Blender and Data Van.





### ***Dual Purpose Nitrogen Pumper***



For super-heated nitrogen applications, MTT is adapting our standard 180,000 scfh pumper to add a dry exhaust heat exchanger to supplement the flow. This trailer will now include the basic N2 liquid to gas conversion for stimulation, plus a super-heated output. Features include:

- Straight liquid N2 for cooling applications
- High rates of N2 with a sustained 6,000 scfm at ambient temp
- 450 F customer gas discharge temp at a sustainable 3000 scfm
- 4,000 PSI

This super-heated N2 is used for many applications including pipeline cleaning.



### ***Drill Water Evaporation Process***



Drill water disposal has long been a costly problem. Reinjection is not always feasible due to potential pollutants being introduced into the water table. MTT's response is to evaporate the water via the turbine waste heat when running any frac or pump job. MTT's soon to be released production model will consist of a removable water collection vessel ducted near the turbine exhaust. A



continuous supply of drill water is directed to the vessel and harmless steam is then vented to atmosphere. Residual solids in the vessel are collected and safely disposed of. A high volume of waste water can be continuously disposed of at site and can act as a processing depot for surrounding fields. The 1,000+ degree turbine waste heat is literally "free energy" when the turbine is running any form of pump job.

## Nitrogen Generation



To support fracing equipment along with other high-use nitrogen applications, MTT is developing the first turbine-powered mobile nitrogen generator: the MTT Turbine NitroGen, generating gaseous nitrogen on site.

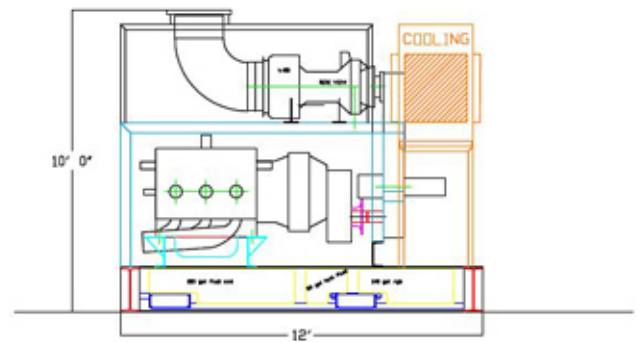
A natural extension of the MTT Turbine Nitrogen Pump recently released to the market, these Turbine NitroGEN units provide from 420 to 3,800 HP on a single trailer. The turbine engine, nitrogen generation process, its support systems, pumps, and control house are all embodied on a conventional trailer and achieves an incredibly high output in a minimal amount of space. As a result, the MTT Turbine NitroGen can easily be modularized for air transport and is suitable as a barge-based nitrogen hub supporting offshore work. Bio fuel ready.

## Frac Pumps

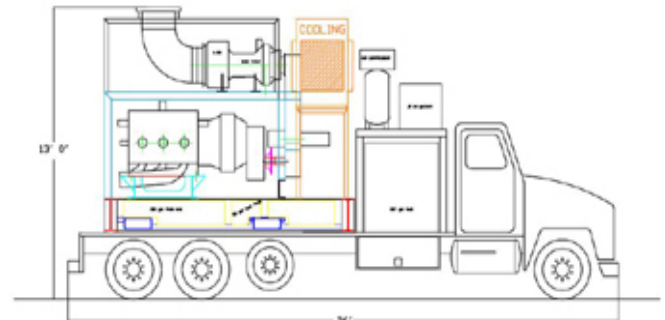
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*Frac Unit Skid Designs and Options*



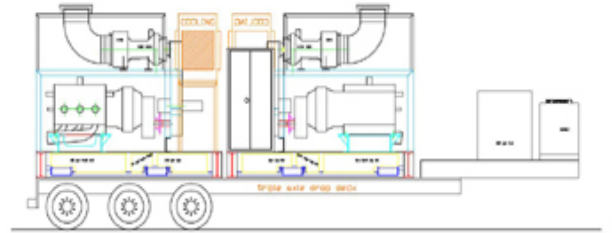
*The core frac unit weighs approximately 23,000 lbs wet with a triplex pump. Fully self contained. Suitable for offshore transport or as a plug and play spare unit. Forklift pockets are standard for easy transport.*



*The same core frac unit fitted on a bobtail. This configuration is designed for tight, mountainous roads such as in the Marcellus Shale. An 800+ gallon fuel tank, air compressor and generator included. Customs additions available.*

## Turbines in the Oil Field

For years, the oil industry has depended on reciprocating engines to power its equipment despite the known limitations of diesel engines. Characterized as having lower pump rates, being oversized, heavy and having reliability issues, diesels have struggled to stay on the cutting-edge of industrial technology.



The double frac on a 35' trailer is designed for the most common of field applications. A 3,000 gallon fuel tank with a 25 KW generator can be included. As a substitute for a large fuel tank, a full control house can be mounted on the deck. Alternatively, fuel tanks can be built into the frac unit base leaving room for the control house.



The double frac on a 48' trailer is designed for a full featured control house or additional support equipment.

The MTT Frac Stack Pack is powered by a split-shaft turbine engine with varying speeds for the fluid end. The jetPUMP™ has realized outstanding performance results. Unlike its diesel counterpart (which depends on gear reduction to provide enough power to overcome pressure increases), split-shaft turbines do not sacrifice pump rate.



A semi-permanent installation designed for walking rigs. The skid is 65' with a fuel tank and a generator. The frac units can still be lifted and moved via the forklift pockets. All frac skids can be run on CNG, LNG, treated field gas, #2 diesel or bio fuel.

The MTT designed Frac Stack Packs include all engine accessories, electrical systems, electronics, start system, inlet, exhaust and digital/analog controls. The oil and lube systems are fully integrated.



The 3,850 HP gas turbine stacked above the pumps weighs only 770 lbs.



