

# SBT-614 POD III

## Stimulation blender

### APPLICATION

- Blending and pumping slurry for fracturing treatments
- Land-based operations

### ADVANTAGES

- Provides two fully redundant proppant blending systems
- Blends and pumps slurry at rates of up to 70 bbl/min
- Proppant delivery rate of up to 18,000 lbm/min
- Precisely controls the solid/liquid ratio to match design specifications
- Runs in a fully automated mode after initialization
- Communicates with FracCAT\* fracturing computer-aided treatment software
- Loads and pumps three liquid additives into either mixer
- Meters dry additives into both mixers

The truck-mounted SBT-614 POD\* III programmable optimal density blender is capable of blending and pumping proppant slurry at rates up to 70 bbl/min. Mixing is performed by two independent, side-by-side, 35-bbl/min mixers. Computer controlled integral gates meter proppant into the fluid using feedback from densitometers or flow meters. This precisely controls the solid/liquid ratio of the proppant to match design specifications, using either ramp or stair-step mode.

Mixing is performed by two independent, side-by-side, 35-bbl/min mixers. Computer-controlled integral gates meter proppant into the fluid on the basis of feedback from densitometers or flow meters. This precisely controls the solid/liquid ratio of the proppant to match design specifications, using either ramp or stair-step mode.

The equipment includes

- a Peterbilt truck chassis
- two vortex mixers with independent hydrostatic transmissions
- two 1- to 35-galUS/min [4- to 133-L/min] liquid additive pumps with mass flowmeters
- one 0.5- to 20-galUS/min [2- to 76-L/min] liquid additive pump with a magnetic flowmeter
- two dry additive feeders with interchangeable feed screws
- suction and discharge flowmeters in the fluid flow streams.



SBT-614 POD III blender skid.

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## SBT-614 POD III Stimulation Blender Specifications

Truck chassis	Peterbilt COE 362 SBAF with sleeper
Truck engine	Caterpillar 3176 ATAAC, 325 bhp [242 kW] at 2,100 rpm
Deck engine	Caterpillar 3176 ATAAC, 325 bhp [242 kW] at 2,100 rpm
Transmission	Fuller RTOX-14708LL (should this be RTOF?)
Split shaft power takeoff	Cotta
Hydraulics	Rexroth, Parker, Char-Lynn, Apitech

### 6 × 4 drive train

Road length, ft [m]	36.5 [11.1]
Operating length, ft [m]	40.0 [12.2]
Width, ft [m]	8.0 [2.4]
Height, ft [m]	13.3 [4.0]
Total weight, lbm [kg]	49,300 [22,370]
Front, lbm [kg]	17,100 [7,730]
Rear, lbm [kg]	32,200 [14,640]

### Two vortex mixers with integral gates

Max. discharge pressure, psi [bar]	100 [6.8]
Max. sand rate per mixer, lbm [kg]	9,000 [4,090]
Max. slurry rate per mixer, bbl/min [L/min]	35 [5,565]

### Three liquid, two dry additive systems

Liquid C (common) systems	5–20 galUS/min [19–76 L/min] into suction of either mixer
Two liquid A systems	1–35 galUS/min [4–133 L/min] into suction of either mixer, 1–20 galUS/min [4–76 L/min] into either discharge
Two dry additive systems, ft <sup>3</sup> /min [cm <sup>3</sup> /min]	0.009–0.640 [255–18,120]
One PropNET feeder, ft <sup>3</sup> /min [cm <sup>3</sup> /min]	0.5–18 [14,160–509,700]
Gauges	Imperial and metric

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