

Perfect pours

Reimer Mobile Volumetric Mixers go right to the jobsite to mix the precise amount of concrete

Dozens of new wind turbines catch the breeze along 200 kilometers (124 mi.) of coastline along Egypt's Red Sea. The desert region is a perfect location for harvesting this renewable energy, as winds there blow hard and steady.

One by one, new turbines are joining the ranks of others, standing tall, firmly anchored into the ground by heavy concrete bases. As new bases are poured, there's an interesting absence of concrete batch plants and mixing trucks. Rather, a fleet of John Deere-powered mobile concrete mixers move between installation sites, efficiently mixing concrete in this remote region on an as-needed basis. No concrete goes to waste.

Reimer International of Didsbury, Alberta, is the company behind this Mobile Volumetric Mixer. Think of it as a high-production batch plant on wheels. All of the components — stone, sand, cement, and water — load into separate compartments on a truck-mounted unit. These components are precisely metered and mixed into fresh concrete in a special auger as the Mobile

Mixer unit is being discharged. A wireless remote control allows a single operator to make adjustments to the mix and discharge rate. This design makes it adaptable for many different work environments.

Reimer International began powering its three models of Mobile Mixers with John Deere two years ago. "Because we ship units internationally, we looked for an engine that one could find service and parts for worldwide," relates Steven Fillmore, director of sales and marketing for Reimer International. "That, coupled with competitive pricing and good service from Frontier Power, led us to use John Deere engines."

Also, a global customer base also means that Reimer International must meet regional emissions regulations. The John Deere PowerTech engine family consists of a variety of emissions-approved models. Among those used by Reimer International include the Interim Tier 4 and Stage III A PowerTech E 4024H, and the Tier 3/Stage III A PowerTech E 4045T engines.

A Tier 3/Stage III A PowerTech E 4045T powers the Reimer Mobile Volumetric Mixer.



A Reimer volumetric mixer pours a concrete base for a wind turbine.



Reimer Mobile Mixers produce up to 57 cubic meters (75 cu. yds.) of concrete per hour and are designed and built to run continuously. “When you’re mixing concrete at higher volumes at lower slump, at high production rates, you need an engine that can hold up to that kind of load and pressure,” explains Steven. “We are happy with the torque curve of the John Deere engines, because they hold the load right where you need it. “Our mixers have the reputation for having the most durability and high quality on the market,” says Steven. “It only made sense to couple that with a high-quality power source from John Deere.”



Emissions Cert.	Interim Tier 4 and Stage III A	Tier 3/Stage III A
Engine Model	PowerTech E 4024HF295	PowerTech E 4045TF285
Displacement	2.4L	4.5L
Rated Power	49 kW (66 hp) @ 2800 rpm	74 kW (99 hp) @ 2400 rpm
Cylinders	4	4
Aspiration	Air-to-air aftercooled	Turbocharged
Distributor	Frontier Power Products Calgary, Alberta, Canada (403) 720-3735 www.frontierpower.com	

The Reimer Mobile Volumetric Mixer meters concrete components, creating a fresh concrete mix on an as-needed basis.

Concrete-anchored wind turbines stand tall along the Red Sea in Egypt.