

# Step 4

## Power requirements

Check the power requirements in your Solution Finder report and make sure that the vehicle provides the required kW, HP and torque.

Decide whether the pump should be run by belt or hydraulics.

If you are planning to run the pump by hydraulics, you can order a ready to run package from Samson Pumps.

## Solution Finder

### Specifications

#### Truck design

Truck type	
Water tank placement	Inside the slurry tank
Vacuum tank volume	5 m <sup>3</sup>
Water tank volume	300 L
Suction hose	5 "
Suction hose length	15 m
Suction hose depth	3 m
Ambient temperature	15 °
Fan cooler	No

#### Truck performance

Air speed in suction hose	19 m/sec
Water temp. after 10 hours	38.8 °

#### Power requirement

Torque requirement	251 Nm
Power requirement	21 kW

#### Pump

Vacuum pump	Truck Master 2500
Pump speed	800 RPM
Sound pressure	63 dB(A)