

# I-MARS Gen2

## Next Generation Geopolymer Lining System

### INTERNATIONAL MOBILE ASSET RENEWAL SYSTEM

#### DESCRIPTION

More Power. More Capacity. For more power, higher volume and lower maintenance, the I-MARS Gen2 is the answer. Gen2 consists of the I-MARS Power Train and Reed system that features a bigger engine, more mixing capacity and 4" swing tube pump for higher pumping rates.

#### HIGH OUTPUT INFRASTRUCTURE REHABILITATION

For maximum efficiency and production, the I-MARS Gen2 is built to rehabilitate sewer infrastructure with the industry's best geopolymer, Quadex® GeoKrete®.

- Designed to mix larger batches and pump longer distances
- Perfect for spin-cast, spray and trowel applications
- Restores large diameter infrastructure of all shapes
- Pipe, tunnels, culverts, junction boxes, etc.

Included:

- I-MARS System consisting of a compressor, generator, chiller, power and H<sub>2</sub>O distribution
- Gen 2 Reed Pumping system power by a 130 hp Cummins Diesel Engine
  - This system offers the highest amount of displacement in its class (4.5 Liters), meaning more torque, at lower RPM's, for a quieter, longer lasting, more fuel efficient machine
  - Modified hopper for increased capacity



I-MARS System

#### I-MARS POWERTRAIN SPECIFICATIONS

- **Compressor** 185 cfm rotary screw-type
- **Generator** 30 KW
- **Chiller** 4 Ton
- **Water Tank** 225 gal (852 L)  
Weight 8.34 lbs/gal (1kg/L)\*
- **Dual Water Pumps** 110 gpm (416.4 lpm)
- **Dimensions** 160" L x 85" W x 81" H  
(406.4 cm x 215.9 cm x 205.7 cm)
- **Weight** 7,380 lbs (3,348 kg)
- **Fuel Capacity** 2 x 40 gal (2 x 151.5 L)  
tanks (empty)\*\*

\* Add 8.34 lbs per gal (1.0 kg per L) of water, max additional weight @ 225 gal / 852 L = 1,876.5 lbs (852 kg)

\*\* Add 7.1 lbs per gal (0.85 kg per L) of diesel, max additional weight @ 80 gal / 303 L = 568 lbs (257.55 kg)



Reed Mixer Pump

#### REED PERFORMANCE SPECIFICATIONS

- **Pump** 4" x 36" (101.6 mm x 914.4 mm)  
swing tube
- **Hydraulic Pressure** 3,200 PSI (220.63 bar)
- **Face Pressure** 2,200 PSI (151.7 bar)
- **Output** Up to 50 Cu-Yd/h
- **Mixer** 1,000 lb (453.6 kg) capacity
- **Hopper** 2,000 lb (907.18 kg) capacity
- **Engine** Cummins Diesel, 130 hp, Tier 4 Final

#### REED PUMP UNIT SPECIFICATIONS

- **Dimensions** 141" L x 95" W x 90" H  
(4.06 m x 2.41 m x 2.29 m)
- **Weight (Empty)** 8,160 lbs (3,701 kg)
- **Fuel Tank** 35 gal (132 L)\*\*\*

#### REED MIXER SPECIFICATIONS

- **Dimensions** 67" L x 83" W x 84" H  
(1.71 m x 2.10 x 2.13 m)
- **Weight** 1,680 lbs (762 kg)

\*\*\* Add 7.1 lbs. per gal (0.85 kg per L) of diesel, max additional weight @ 35 gal / 132.5 L = 248.5 lbs (112.7 kg)

## I-MARS GEN2 SYSTEM DIAGRAMS

