

## GGP114/500-120D High pressure triplex pump for jet grouting

### 1. Description

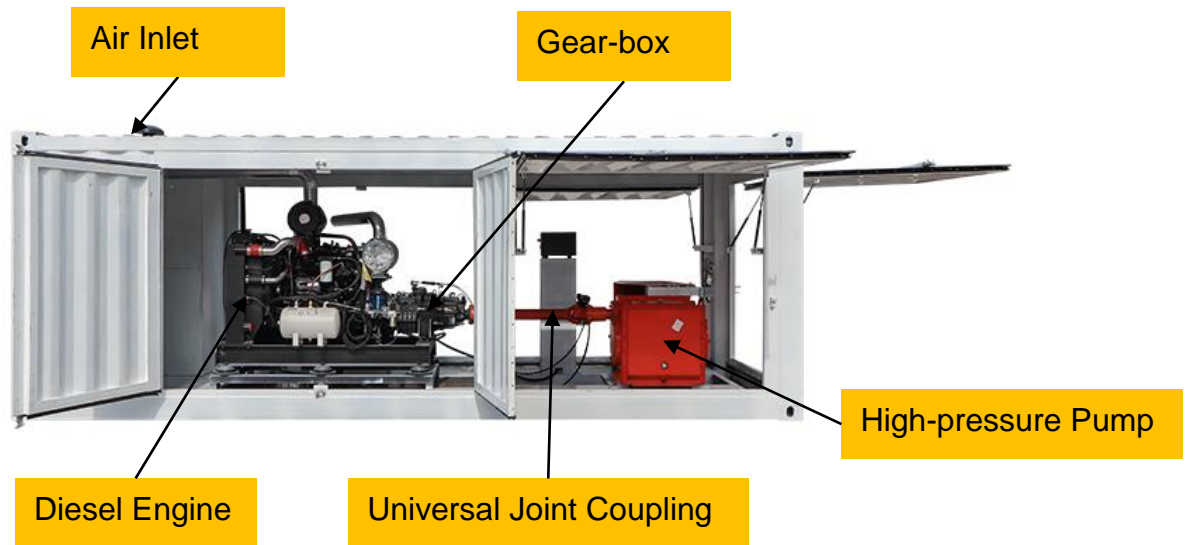
GGP114/500-120D Diesel-driven High-pressure Pump is a horizontal three-cylinder single acting reciprocating pump, which is designed and manufactured by our company with reference to the advanced structure of foreign plunger pumps.

GGP114/500-120D Diesel-driven High-pressure Pump is composed of five parts: power(120Kw diesel engine), clutch, gear-box(Eaton FAST), universal joint coupling and high-pressure pump. Gearbox has four gears and can be gotten four speeds as demand.

GGP114/500-120D Diesel-driven High-pressure Pump provides high-pressure power for jet-grouting, grouting in strengthening weak foundations such as new buildings, highways, high-speed railways, and underground railways. It is also used for uneven settlement treatment of old buildings, deep prevention curtains, soil retaining cofferdams, mine leakage prevention, well barrel protection arms, slope anchoring, and other aspects of reservoir dams and underground construction projects.

GGP114/500-120D Diesel-driven High-pressure Pump can be placed in a 20ft for easy transportation.

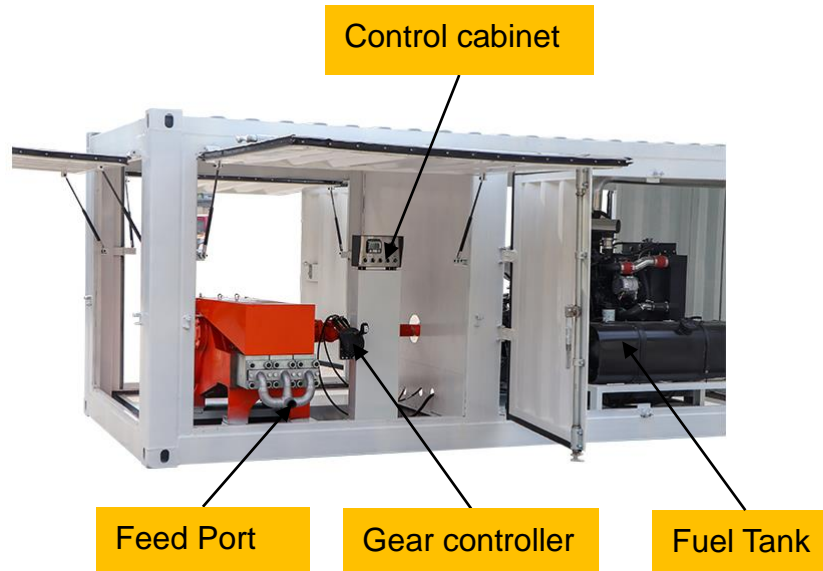
## 2. Features



- ◆ Dynamical system: (high Factor of safety and efficiency)
  - 120Kw Cummins diesel engine, high efficiency, more suitable for the construction site
  - Low voltage operation, safer
- ◆ Transmission system (wide speed range, high transmission efficiency):
  - Implementing 4-speed continuously variable transmission with Fast transmission
  - Using a retractable universal joint coupling to compensate for various irregularities caused by rotation
  - The use of tile transmission extends the service life of the pump power end.
  - Grouting pressure(up to 500bar) and displacement(up to 114L/min) can be adjusted steplessly
- ◆ Plunger
  - 3-cylinder plunger, diameter 55mm, stroke 80mm
  - 3-cylinder alternating motion ensures stability of pressure and flow
  - Using special steel quenching treatment
  - The pump head is forged from a complete section

◆ Diaphragm valve

When the inlet pressure reaches the opening pressure, the diaphragm is sheared and the pressure is released, resulting in high safety



◆ Operating system

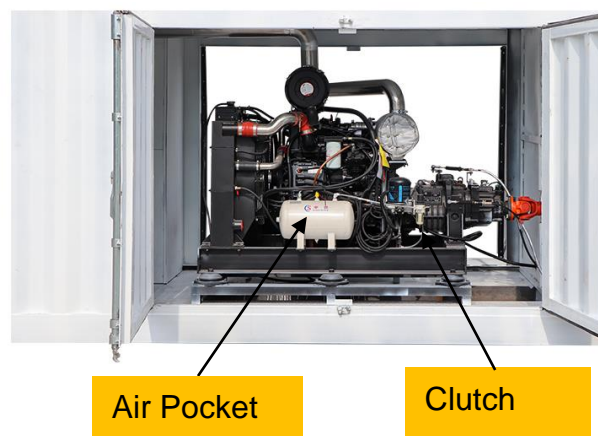
Convenience, high degree of automation, simple measurement and operation

◆ Working medium must be filtered through a 20 mesh or more filter

◆ Easy to operate and maintain

◆ Equipped with some ceiling lamps, for illuminating the different working areas.

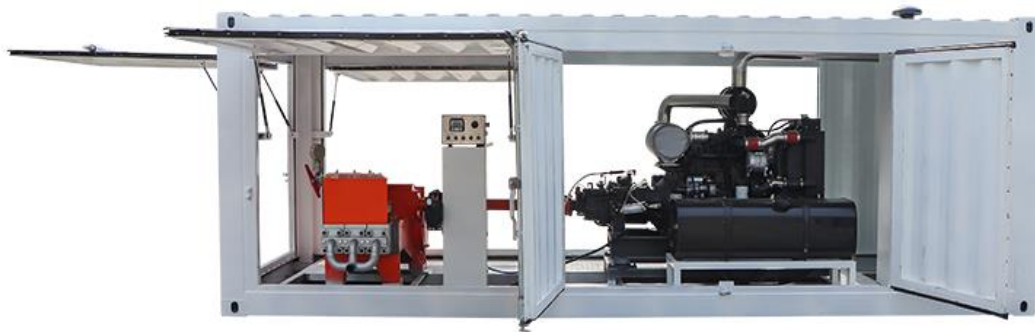
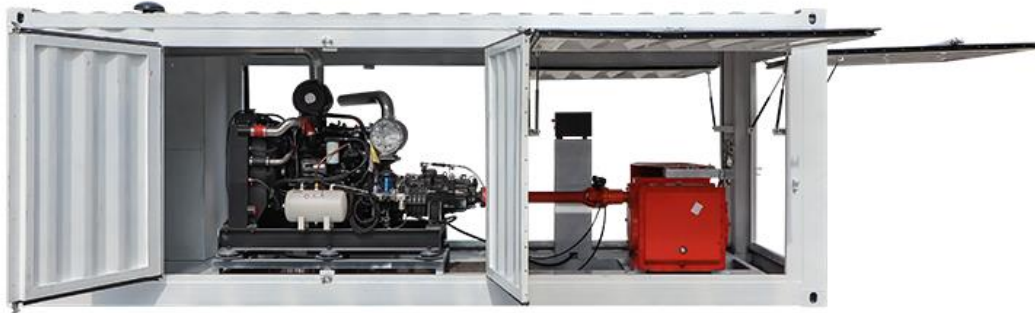
◆ Can be placed directly in the 20ft cabinet



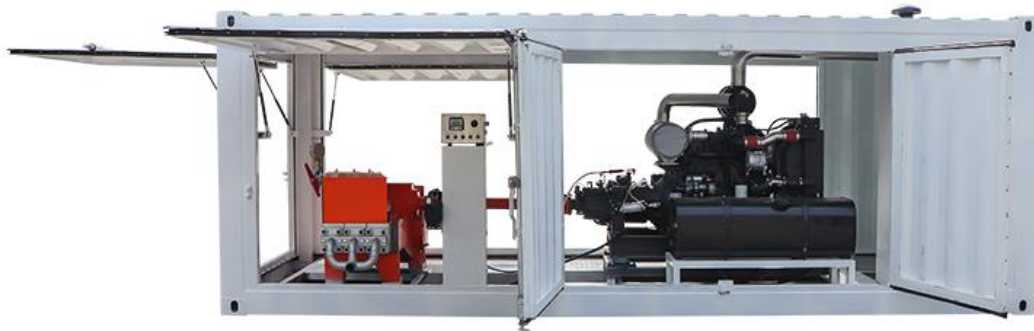
3. Technology Sheet

<b>Specification :</b>			
<p>1. Dynamical system: diesel engine driven, high efficiency, more suitable for the construction site.</p> <p>2. Transmission system: 4-speed continuously variable transmission, wide speed range, high transmission efficiency.</p> <p>3. Plunger: 3-cylinder alternating motion ensures stability of pressure and flow</p> <p>4. Operating system: convenience, high degree of automation, simple measurement and operation.</p> <p>5. Can be placed directly in the 20ft cabinet.</p>			
<b>Model</b>		<b>GGP114/500-120D</b>	
Diesel engine	Type	QSF4.5 Cummins	
	Power	Kw	120
	Max. speed	r/min	2200
Gear-box	Type	EATON FASE	
	Speed	4	
	Control	Level	
Main pump	Type	GP380/55	
	Form of action	Reciprocating single acting plunger type	
	Number of Plungers	Piece	3
	Plungers	mm	Φ55mm-80mm
	Output @ pressure	L/min@bar	114@500
	Inlet Dia.	mm	64
	Outlet Dia.	mm	24
<p>Note: 1. All data are tested by water.</p> <p>2. We can customize products according to your requirements.</p>			

#### 4. Machine Pictures Gallery







## Gaode Equipment Co., Ltd.

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