

LGP250/450-250D High pressure jet grouting pump

1. Description

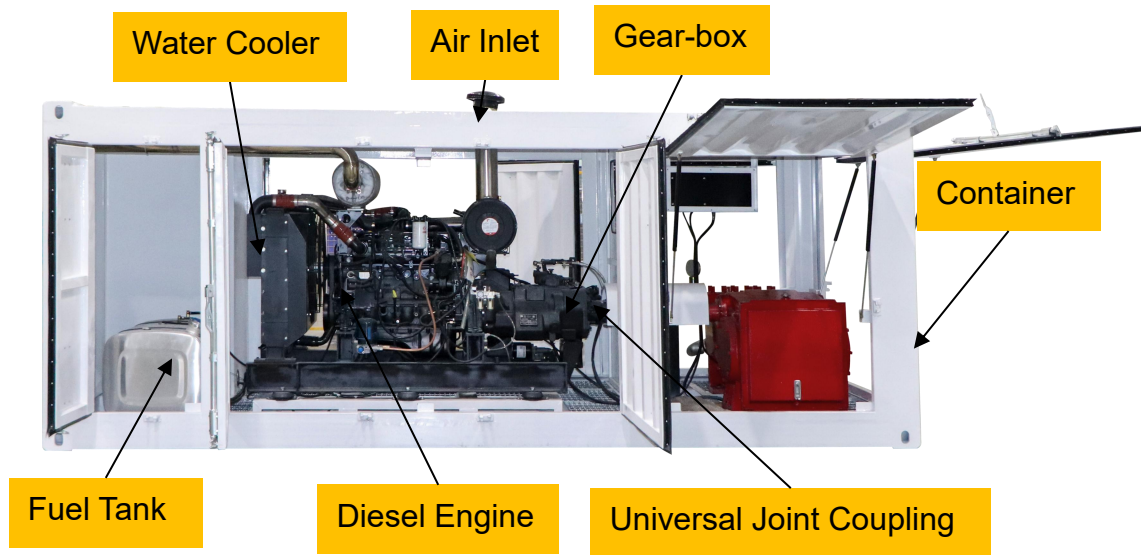
LGP250/450-250D High pressure jet grouting pump is a horizontal three-cylinder single action reciprocating pump, which is designed and manufactured by our company with reference to the advanced structure of foreign plunger pumps.

LGP250/450-250D High pressure jet grouting pump is composed of several parts: power end(260HP diesel engine), clutch, gear-box(Eaton FAST), universal joint coupling and high-pressure pump. The gearbox has four gears and can be continuously variable as needed. Under the original structure of two speed changes, high-pressure pump adopts a tile type transmission, completely changing the disadvantage of needle roller transmission in similar domestic products, which is prone to damage, and extending the working life of the pump's power end. The tile type transmission structure has normal wear and tear between the tiles and the shaft, but it will not make the project impossible due to sudden damage.

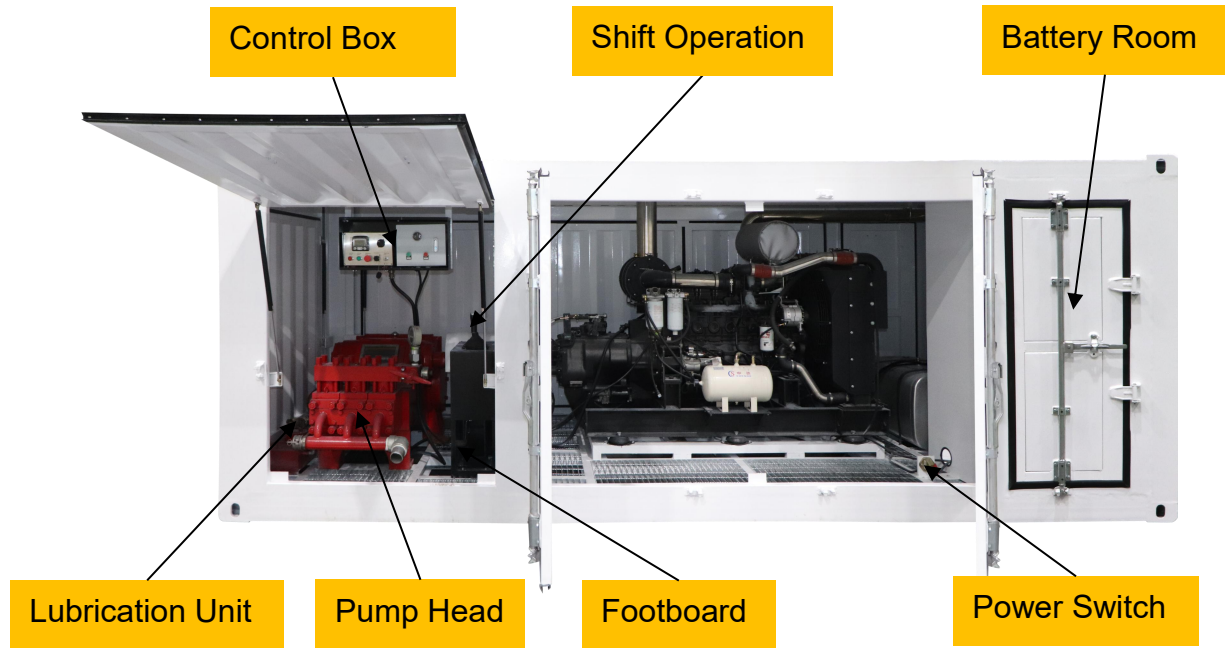
LGP250/450-250D High pressure jet grouting pump provides high-pressure power for strengthening and strengthening weak foundations such as new buildings, highways, high-speed railways, and underground railways. It is also used for uneven settlement treatment of old buildings, deep prevention curtains, soil retaining cofferdams, mine leakage prevention, well barrel protection arms, slope anchoring, and other aspects of reservoir dams and underground construction projects. It can also be used for high-pressure water harvesting to assist in rock breaking and coal falling, and hydraulic props for underground hydraulic supply, Anchoring includes hydraulic expansion metal anchor rods to pump high-pressure water, dredging and cleaning of large underground pipelines, perforation of high-pressure water jets, or other fields that require the use of high-pressure liquid as power.

LGP250/450-250D High pressure jet grouting pump can be placed in a 20ft container for easy transportation.

2. Features



- ◆ Container(L×W×H 5700×2280×2190mm):
 - Structure with reference to the standard container
 - Anti-slip step steel grid plates are used in empty places
- ◆ Dynamical system: (high Factor of safety and efficiency)
 - 260HP Cummins diesel engine, high efficiency, more suitable for the construction site
 - Low voltage operation, safer
- ◆ Transmission system (wide speed range, high transmission efficiency):
 - Implementing a 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 450bar) and displacement(up to 250L/min) can be adjusted steplessly



◆ Plunger

3-cylinder plunger, diameter 75mm, stroke 100mm

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

◆ Easy to operate and maintain

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

3. Technology Sheet

Specification:

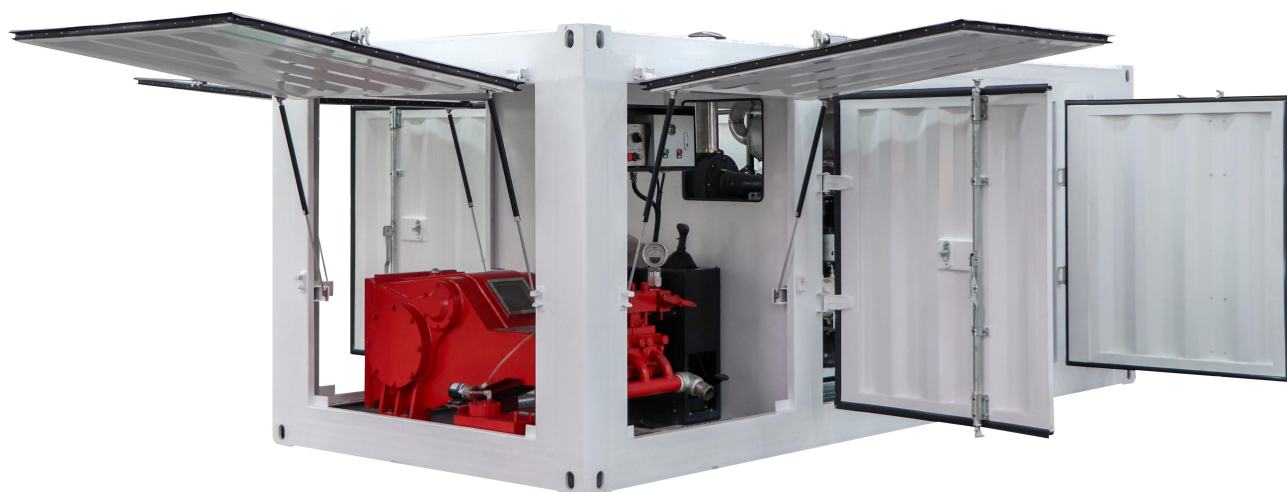
1. Dynamical system: diesel engine driven, high efficiency, more suitable for the construction site.
2. Transmission system: 4-speed continuously variable transmission, wide speed range, high transmission efficiency.
3. Plunger: 3-cylinder alternating motion ensures stability of pressure and flow
4. Operating system: convenience, high degree of automation, simple measurement and operation.
5. Can be placed directly in the 20ft cabinet.

Model		LGP250/450-250D	
Diesel engine	Type	QSF6.7-260C Cummins	
	Power	HP	260
	Max. speed	r/min	2200
Gear-box	Type	EATON FASE	
	Speed	4	
	Control	Level	
Main pump	Type	GP250/450	
	Form of action	Reciprocating single acting plunger type	
	Number of Plungers	Piece	3
	Plungers	mm	Φ75
	Output @ Pressure	L/min@bar	250@450
	Inlet diameter	mm	64
	Outlet diameter	mm	32

Note:

1. All data are tested by water.
2. We can customize products according to your requirements.

4. Machine Pictures Gallery





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