



川源(中国)机械有限公司  
GSD Industrial Co.,Ltd.



# EDS

## 移动式引擎污水(物)泵

EDS mobile engine sewage pump



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### 简介

因应由于台风暴雨关系，造成局部地区淹水，并对人民的生命财产设备构成重大威胁。因此制造可于短时间排除淹水之移动式水泵；机组采用引擎启动，经由独特设计系统带动水泵进行抽水；真空泵浦装置确保泵浦能于短时间内执行抽水任务；不阻塞叶轮设计减少执行抽水任务时因异物阻塞而停止，泵浦入口设格状栅条以防止污物之进入。

### 用途

- 紧急排洪区域
- 船舶排水
- 小区与大楼紧急排水
- 淹水区域排水

### 特点

- 柴油引擎  
机组采用柴油引擎启动，柴油引擎为四行程气或水冷式、蓄电池启动。可调速装置：其调整范围应为全载转速20%以上。以满足各种不同水量变化时使用。
- 真空系统  
使用引擎直接带动之真空泵浦，搭配水气分离筒及自动侦测装置，需能于120秒（含）内排除管中气体达成抽水动作后，自动侦测装置即可自动减压，防止水分进入真空马达中，完全自动化控制不须人工操作。
- 泵组  
泵浦叶轮采用不阻塞叶轮确保水中杂质能被排出；FC250级以上铸铁（相当于ASTM A48 35级）精密铸造，并经精密之静动态平衡校正，抽水机运转振动小。油润滑轴承轴封：采用油润式之碳化硅机械轴封，可容许抽水机无水运转而不损毁。  
不锈钢叶轮轴：采用SUS410之不锈钢制作。

### Introduction

Presently typhoon and heavy rain would cause serious flood and damage life and property for people. GSD has manufactured the mobile engine pump set, which collocate vacuum system, to drainage out the flood in a short period of time. The net grille which assembles on the inlet could prevent huge solid run into pump. The non-clog design impeller could decrease the impeller jam in drainage.

### Application

- Urgent deluge drainage
- Drainage for ships
- Urgent flood drainage for community and building
- Drainage for flood place.

### Features

- Diesel engine  
GSD adopts four-stroke cycle diesel engine to drive the pump operation and is with air cooling, water cooling and battery starting systems on request. Adjustable speed equipment: The adjustable range should be higher than 20% of the full load speed for different water quantity variation.
- Vacuum system  
Using engine directly drives the vacuum pump, and collocate vacuum chamber and auto-detective device to ensure the air in pipe will be drained out in 120 seconds. Additionally, auto-detective device can automatically sense the press decrease and prevent water enter into vacuum motor.
- Pump module  
The pump impeller adopts non-clog design and ensures the solid in water can be drained out of the chamber. Using FC250 class casting iron and testing dynamic and static balance ensure the minimum pumping vibration Lubricant bearing and seals: Adopting lubricant mechanical seal with silicon-carbon material allow the mobile engine pump run dry in a short time.  
The shaft of impeller is SUS410.



#### ■ 传动系统（离合器减速机组）

离合器减速机组：衔接于柴油引擎及泵浦之间，泵浦启动时，离合器可将泵浦与引擎脱离，以减轻引擎启动负担，延长引擎寿命。离合器本身具有外壳，内含减速机一体成型，与引擎飞轮直接耦合，出力端为连接器连接泵浦。减速机可以将引擎转速降底，以符合泵浦需要之转速，直接连结泵浦主轴。离合器减速机组设有水冷却装置及油位油压观测装置。离合器采用一般引擎使用之机油，管理更换方便。

#### ■ 机座

轮胎：使用高承载轮胎，并加导向辅助轮及可拖行之拖架，移动时方便自如，采用免灌气实心轮胎。

机座：柴油引擎、油箱、传动组件、抽水机组等设备装配于同一机座上，附有四支可调整支撑架可随时依使用场所调整。加装机组吊升装置，适合装载于吊卡车上，其挂钩设计尺寸可按各国「道路交通安全规则」或其他相关法规订制。

#### ■ 出水管件组

出水管件安装有适度向下的弯头，以利水管连接；接头采快速接头连接，符合快速安装要求；出水管末端须附一不锈钢固定装置，可抵抗抽水机运转时所产生的背压而使橡皮管不致脱落。

#### ■ 吸水管件组

吸入口有适度向下之弯头，以利吸水管连接。采快速接头（铝合金或更使材质）连接，其连接方式需符合快速安装要求。吸入口须加装不锈钢格状栅条以防止污物进入，吸入头装置尺寸之设计可依客户需求制作。

#### ■ Drive system (Clutch unit for speed reduction)

Clutch unit is connected diesel engine and pump. When pump is on, clutch will cut the pump and diesel engine power connection in order to release starting loads of engine and extend the engine service. The clutch is with cover and speed reduction equipment for one piece module. It also couples to diesel engine and connect with pump by coupling. The speed reduction equipment, which does connect with pump shaft, can reduce the engine rotation speed for pump operation. It sets water cooling and oil observation equipment. The clutch uses general engine oil for easy management and regulator maintenance.

#### ■ Base

Tire: Using heavy load tire, solid tire, directive wheel and movable bracket are convenient for transportation. Base: Diesel engine, oil box, transmission and pump module should be set on the same base. In addition, there are 4 adjustable supports for different places. The lifting device should be customized for various national traffic regulations.

#### ■ Outlet pipe set

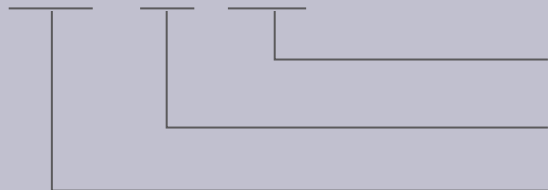
The elbow does assemble on the outlet for convenient assembly. GSD uses quick coupling for easy and quick assembly in the work field. On the end of outlet pipe, there should be a fixed ring with stainless steel material for rubber pipe withstand the back pressure in pump operation and fasten tightly.

#### ■ Inlet pipe set

The elbow does assemble on the inlet for convenient assembly. GSD uses quick coupling for easy and quick assembly in the work field. The net grille which assembles on the inlet pipe could prevent huge solid run into pump. The size of inlet device should be designed on request.

## 型号说明 Type description

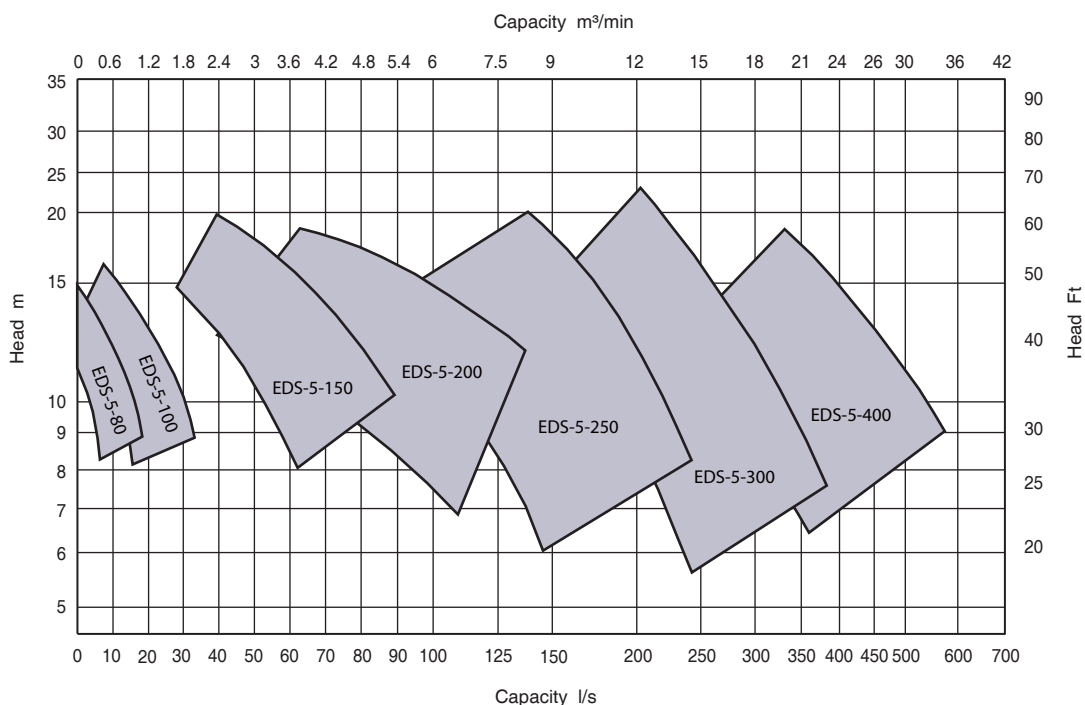
EDS - 5 - 100



|       |                              |
|-------|------------------------------|
| 口径    | Suc. diameter (mm)           |
| 使用频率  | Operating frequency 5: 50 HZ |
| 移动式泵浦 | Mobile pump                  |



## 型谱图 Performance chart



## 性能参数 Performance parameters

| 型号<br>Type | 口径 Dia. |      | 转速<br>Speed<br>(r/min) | 引擎马力<br>Horse power<br>(hp) | 扬程<br>Head<br>(m) | 流量<br>Capacity<br>(m <sup>3</sup> /min) | 通过粒径<br>Solid diameter<br>(mm) |
|------------|---------|------|------------------------|-----------------------------|-------------------|---|--------------------------------|
|            | (inch)  | (mm) |                        |                             |                   |   |                                |
| EDS-5-80   | 3"      | 80   | 1500                   | 6                           | 10                | 0.75                                    | 10                             |
| EDS-5-100  | 4"      | 100  | 1500                   | 10                          | 12                | 1.2                                     | 18                             |
| EDS-5-150  | 6"      | 150  | 1500                   | 30                          | 14                | 4.5                                     | 40                             |
| EDS-5-200  | 8"      | 200  | 1500                   | 40                          | 14                | 7                                       | 40                             |
| EDS-5-250  | 10"     | 250  | 1000                   | 60                          | 15                | 10                                      | 60                             |
| EDS-5-300  | 12"     | 300  | 1000                   | 80                          | 12                | 17                                      | 65                             |
| EDS-5-400  | 16"     | 400  | 1000                   | 130                         | 12                | 30                                      | 70                             |



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