

# Pump unit P7D & P10D



## Technical data:

### Unit description :

The P7D and P10D are specially developed for the HDD drilling rigs in the range to abt. 80 ton.  
The pump capacity for the P7D is up to 700 ltr/min and for the P10D to 1000 ltr/min.  
The P7D is one 8 ft module, the P10D includes two modules that are easy connected by spicer coupling.

### Driver :

Installed in the P7D is a 75 kW engine, in the P10D we have installed a 170 kW engine with 3 speed gearbox.

### Drive system :

The P7D pump is driven by gearbox and chain belt, in the P10D a 3 speed gearbox and a chain reduction is installed.

### Pump :

The pump in the P7D is a 3 1/2" stroke triplex piston pump with 3 1/2" alternative 4" liners, the P10D is a 5" stroke triplex piston pump with 4" liners.  
P10D is with forced lubrication system. Both pumps have liner wash system.  
Hydrostatic test pressure fluid end 100 bar.

### Capacity :

|      | Liner  | Pressure | Q pump ltr/min |      |
|------|--------|----------|----------------|------|
|      |        | Bar      | min.           | max. |
| P7D  | 3 1/2" | 70       | 200            | 510  |
|      | 4"     | 50       | 260            | 670  |
| P10D | 4"     | 70       | 150            | 1000 |

### Remote & Operating panel :

Remote unit for the pump speed, on/off, basic engine Information.

Remote panel



### Unit connections :

|              | P7D | P10D |                      |
|--------------|-----|------|----------------------|
| Mud inlet    | 3"  | 4"   |                      |
| Mud outlet   | 2"  | 2"   | Hammer union fig 200 |
| Safety valve | 2"  | 2"   |                      |

**It is necessary to charge the suction line to the pump.**

### Unit size & weight :

P7D : 8 ft ISO std. container  
Dry weight 3000 kg

P10D pump module : 2,2,x,2,x,1,6 mtr  
Dry weight 3000 kg  
engine module : 8 ft container - 2,5 mtr height  
Dry weight 3000 kg

**Fuel tank :** P7D 200 ltr  
P10D 350 ltr

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