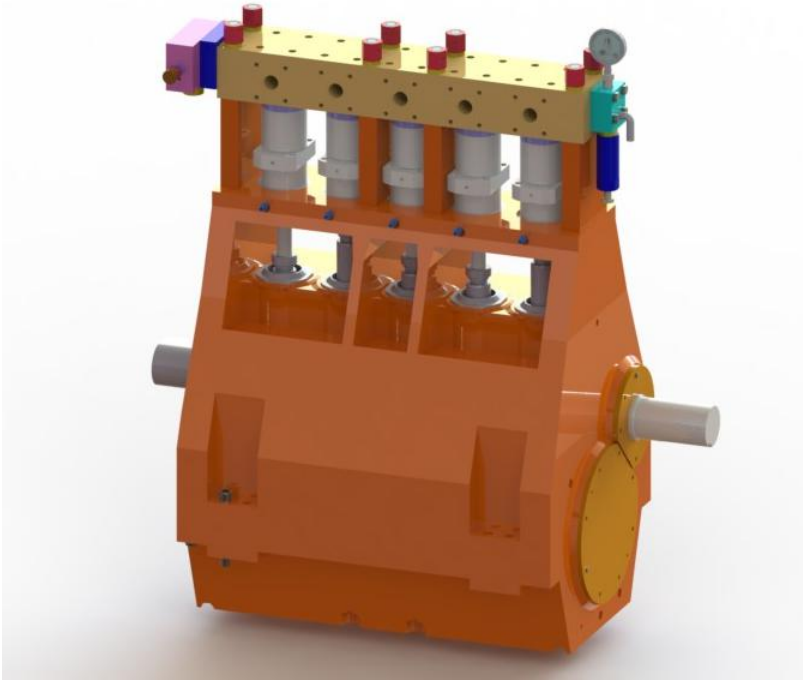


# FJ60000 High Pressure Pump System

FJ60000 high pressure pumps are built to operate at the continuous maximum duty stated in the performance parameters. Just compare the crankshaft speed, average plunger speed, plunger diameter and power rating.



## Stationary unit with diesel engine

Length: 4500 mm  
Width: 2000 mm  
Height: 2450 mm  
Weight: 8000 kg

## Feature:

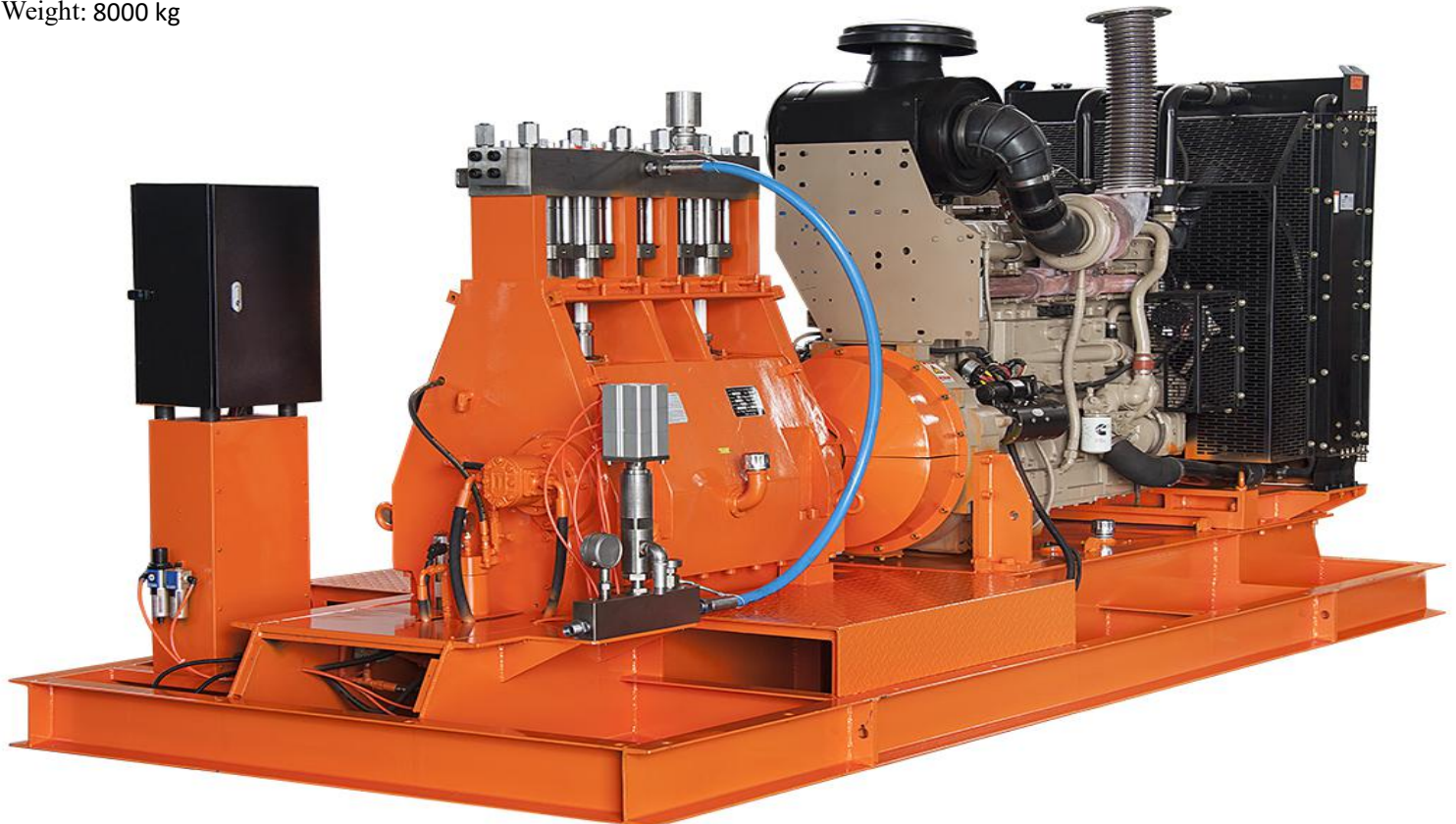
Power ratings up to 800kw  
Vertical 3 cylinder design

## High Pressure Pump

Weight: approx. 2800 KG

## Quality and reliability


- ✧ Stainless steel pump head free of alternating stress
- ✧ Spring preloaded high pressure sealing make it longer life
- ✧ Solid solid ceramic plunger to ensure high strength and stable operation
- ✧ An integrated lubricating oil and piston cooling system to improve the service life.
- ✧ Built-in double gear reducer to make transmission balance higher efficiency
- ✧ Special design of the crankcase magnetic filter
- ✧ Crankcase forced lubrication system
- ✧ An integrated ball type liquid inlet valve design, greatly improving the efficiency of fluid mechanics.
- ✧ Computational fluid mechanics design in dynamic load to ensure the highest reliability under max duty working conditions.
- ✧ The crankshaft is made of a high strength forging process and is specially treated



# FJ60000 High Pressure Pump System

| FJ60000 series |          |         |                          |       |       |       |       |      |        |
|----------------|----------|---------|--------------------------|-------|-------|-------|-------|------|--------|
| Model          | Plunger  | Flow    | Required power (kw)      |       |       |       |       | D    | r.p.m. |
|                | Diameter |         | 500kw                    | 560kw | 630kw | 710kw | 800kw | n1   | n2     |
|                | (mm)     | (l/min) | Operating pressure (bar) |       |       |       |       |      |        |
| FJ60022        | 22       | 72      | 3500                     |       |       |       |       | 1500 | 380    |
| FJ60024        | 24       | 86      | 3000                     | 3300  |       |       |       | 1500 | 380    |
| FJ60026        | 26       | 101     | 2600                     | 2900  | 3250  |       |       | 1500 | 380    |
| FJ60028        | 28       | 117     | 2200                     | 2490  | 2800  | 3150  | 3500  | 1500 | 380    |
| FJ60030        | 30       | 134     | 1900                     | 2170  | 2440  | 2750  | 3000  | 1500 | 380    |
| FJ60032        | 32       | 153     | 1700                     | 1900  | 2150  | 2400  | 2700  | 1500 | 380    |
| FJ60034        | 34       | 172     | 1500                     | 1690  | 1900  | 2140  | 2400  | 1500 | 380    |
| FJ60036        | 36       | 193     | 1350                     | 1500  | 1700  | 1900  | 2150  | 1500 | 380    |
| FJ60040        | 40       | 239     | 1100                     | 1220  | 1370  | 1550  | 1740  | 1500 | 380    |
| FJ60045        | 45       | 302     | 860                      | 970   | 1080  | 1200  | 1350  | 1500 | 380    |
| FJ60050        | 50       | 373     | 700                      | 780   | 880   | 1000  | 1100  | 1500 | 380    |
| FJ60055        | 55       | 451     | 580                      | 645   | 720   | 820   | 920   | 1500 | 380    |
| FJ60060        | 60       | 537     | 480                      | 540   | 610   | 680   | 770   | 1500 | 380    |
| FJ60065        | 65       | 630     | 410                      | 460   | 520   | 580   | 660   | 1500 | 380    |
| FJ60070        | 70       | 731     | 350                      | 400   | 450   | 500   | 570   | 1500 | 380    |
| FJ60075        | 75       | 839     | 310                      | 350   | 390   | 440   | 490   | 1500 | 380    |
| FJ60080        | 80       | 955     | 270                      | 305   | 340   | 390   | 430   | 1500 | 380    |
| FJ60085        | 85       | 1078    | 240                      | 270   | 300   | 340   | 380   | 1500 | 380    |
| FJ60090        | 90       | 1208    | 210                      | 240   | 270   | 300   | 340   | 1500 | 380    |
| FJ60095        | 95       | 1346    | 190                      | 220   | 240   | 270   | 300   | 1500 | 380    |
| FJ60100        | 100      | 1492    | 170                      | 200   | 220   | 250   | 280   | 1500 | 380    |
| FJ60105        | 105      | 1644    | 160                      | 180   | 200   | 220   | 250   | 1500 | 380    |
| FJ60110        | 110      | 1805    | 140                      | 160   | 185   | 200   | 230   | 1500 | 380    |

D=Piston/Plunger dia. [mm] FJ60022~FJ60034: A type Fluid End, spring preload dynamic plastic seal, SS fluid end  
n1=Motor/Engine r.p.m FJ60036~FJ60060: B type Fluid End, spring preload packing seal, alloy steel & SS fluid end  
n2=Crankshaft r.p.m FJ60060~FJ60110: C type Fluid End, spring preload packing seal, alloy steel fluid end  
N2 Plunger speed: 0.73m/s Conversion table: Rating 1kW=1.34HP  
Rod force:155KN Op.pressure 1bar=14.5psi=0.1Mpa  
Storke: 100mm  
Choice N2: 450

 Conversion efficiency of FJ high pressure pump can up to 92%~98%

The dynamic high pressure seal promotes the advantages of Y type seal design, further improving the efficiency, and the special ceramic plunger can reach the maximum 3000bar pressure