

# DIESEL DRIVEN POWERPACK

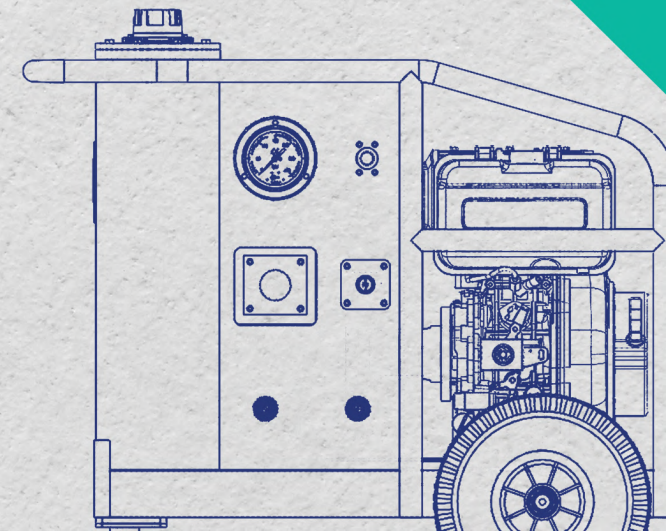
An Oil Spill Response Product



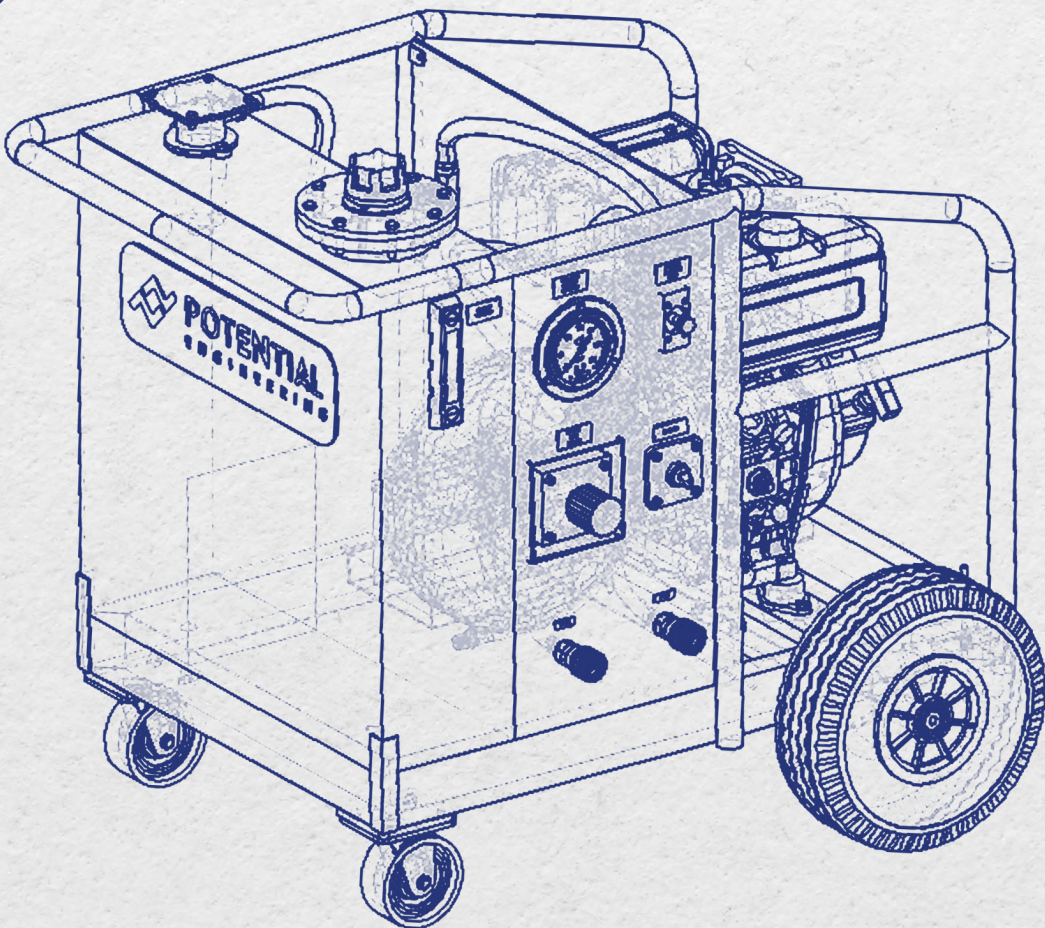
# DIESEL DRIVEN POWERPACK

Diesel engine driven hydraulic power pack is a unit that delivers pressurized oil for driving hydraulic equipment. Hydraulic power pack is mostly used to drive the skimmer, boom reel, hydraulic driven pumps and other hydraulic equipment. All valves can be manually or solenoid operated. Power pack can be mounted on trolley wheels for ease of movement at site & provided with canopy for outdoor application. Power pack can be designed with N number of circuits as per systems requirements. Power pack can be provided with spark arrestor, automatic low hydraulic oil shutdown system, engine over speed protection system, high exhaust temperature shutdown system low lube oil protection system. Power pack can be customized as per client requirement.

Power pack consists of a hydraulic pump, valves suitable for the application, a manifold and an oil storage tank. All hydraulic components are mounted on the MS body / Aluminium body oil tank of hydraulic power-pack. The Power pack is powered by a diesel engine and serves as a multipurpose power pack designed for the flexible operation.



# ABOUT PROBLEM



## Heating of Hydraulic Oil

Heat generated by diesel engine during operation is transmitted to the hydraulic oil which increases the overall system temperature and thereby auto shutdown is triggered in short intervals.



## Vibration issues due to engine

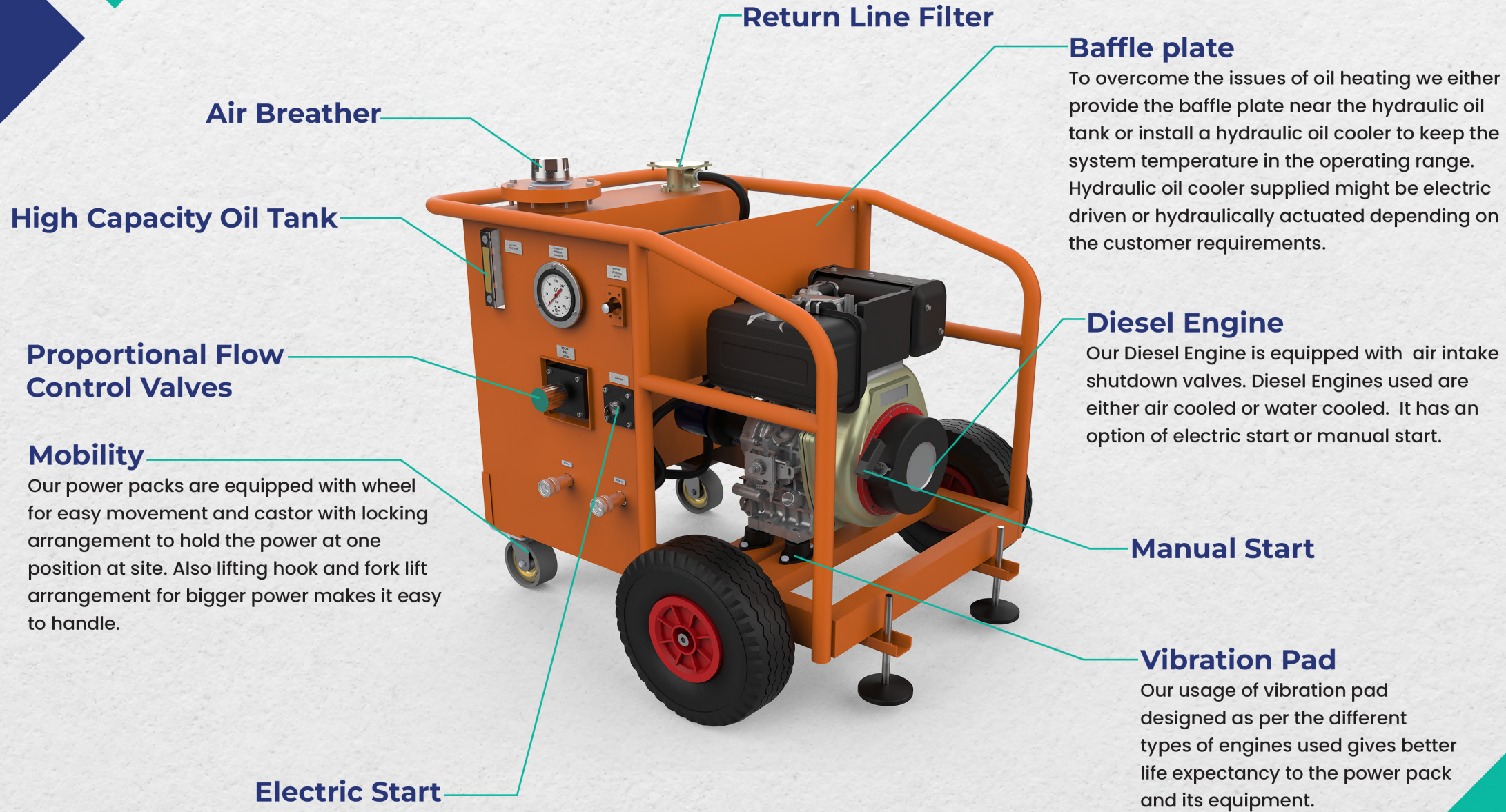
Overall system and equipment's life is reduced to than it's expected due to a large amount of vibration transmitted during an operation.



## Handling and Mobility Issues

During an operation at site, it becomes difficult to handle by one person and mobility issues are faced by the operation team.

# OUR SOLUTION



**Air Breather**

**Return Line Filter**

**Baffle plate**

To overcome the issues of oil heating we either provide the baffle plate near the hydraulic oil tank or install a hydraulic oil cooler to keep the system temperature in the operating range. Hydraulic oil cooler supplied might be electric driven or hydraulically actuated depending on the customer requirements.

**High Capacity Oil Tank**

**Proportional Flow Control Valves**

**Diesel Engine**

Our Diesel Engine is equipped with air intake shutdown valves. Diesel Engines used are either air cooled or water cooled. It has an option of electric start or manual start.

**Mobility**

Our power packs are equipped with wheel for easy movement and castor with locking arrangement to hold the power at one position at site. Also lifting hook and fork lift arrangement for bigger power makes it easy to handle.

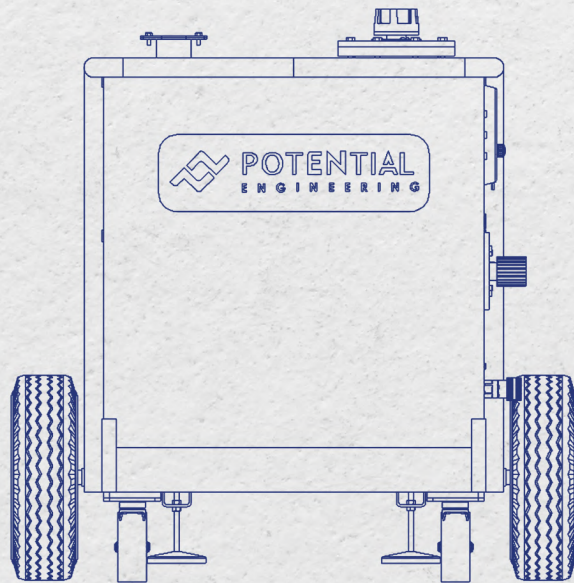
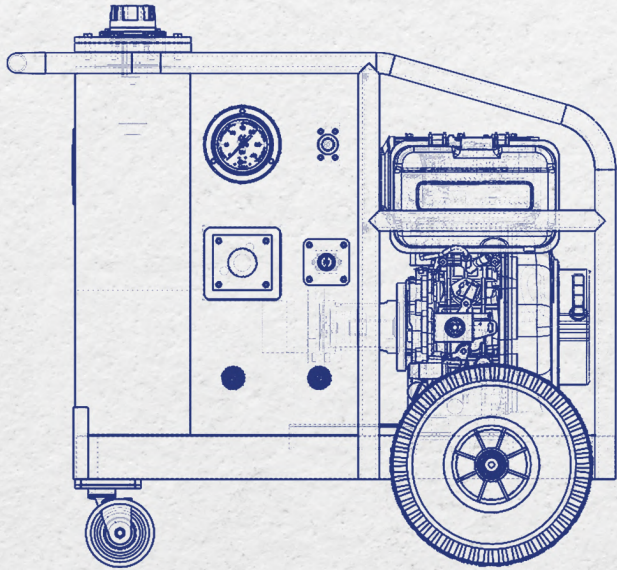
**Manual Start**

**Vibration Pad**

Our usage of vibration pad designed as per the different types of engines used gives better life expectancy to the power pack and its equipment.

**Electric Start**

# MODEL SELECTION MATRIX



## Optimal Package Solution :

Boom + Boom Reel + Power Pack + Air Inflator + Anchoring Set + Container

|                                       |                                  |                                  |                                  |                                  |
|---------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| <b>ENGINE POWER</b>                   | 50 KW / 67 HP                    | 35 KW / 47 HP                    | 26 KW / 35 HP                    | 7.5 KW / 10 HP                   |
| <b>TOTAL HYDRAULIC FLOW</b>           | 140 LPM, 210 bar                 | 120 LPM, 210 bar                 | 80 LPM, 210 bar                  | 25 LPM, 210 bar                  |
| <b>NO. OF CIRCUITS</b>                | 1 TO N                           | 1 TO N                           | 1 TO N                           | 1 TO N                           |
| <b>OIL COOLER</b>                     | Yes                              | Yes                              | Yes                              | Yes                              |
| <b>STARTING OPTIONS</b>               | Electric / Spring                | Electric / Spring                | Electric / Spring                | Electric / Spring                |
| <b>FRAME</b>                          | Skid                             | Skid                             | Skid                             | Skid                             |
| <b>STANDARD HYDRAULIC CONNECTION</b>  | 3/4 in<br>1/2 in<br>3/8 in Drain | 3/4 in<br>1/2 in<br>3/8 in Drain | 3/4 in<br>1/2 in<br>3/8 in Drain | 3/4 in<br>1/2 in<br>3/8 in Drain |
| <b>AIR BLOWER(FOR BOOM INFLATION)</b> | Optional                         | Optional                         | Optional                         | Optional                         |



📍 Potential Engineering  
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