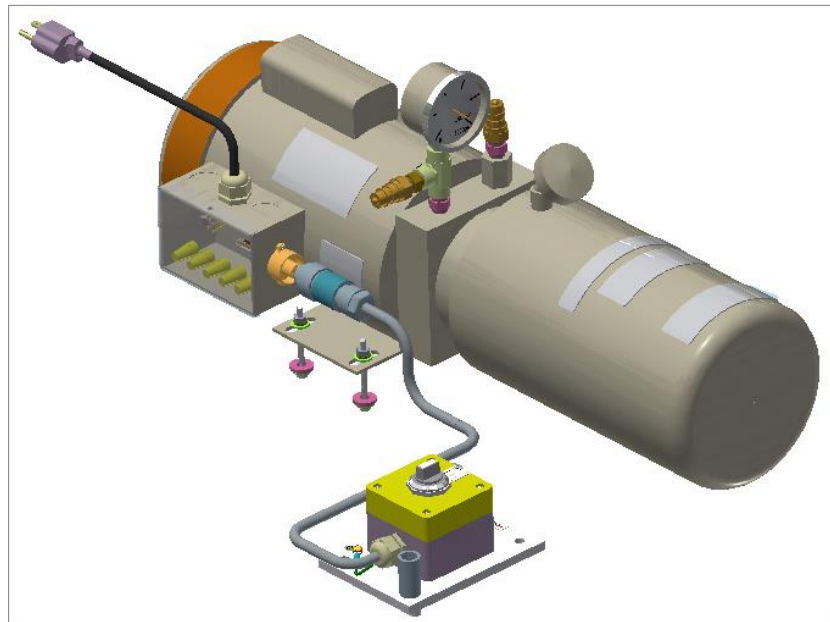


# Hydraulic Power Pack for JMTS

## USER GUIDE



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*July 2017*

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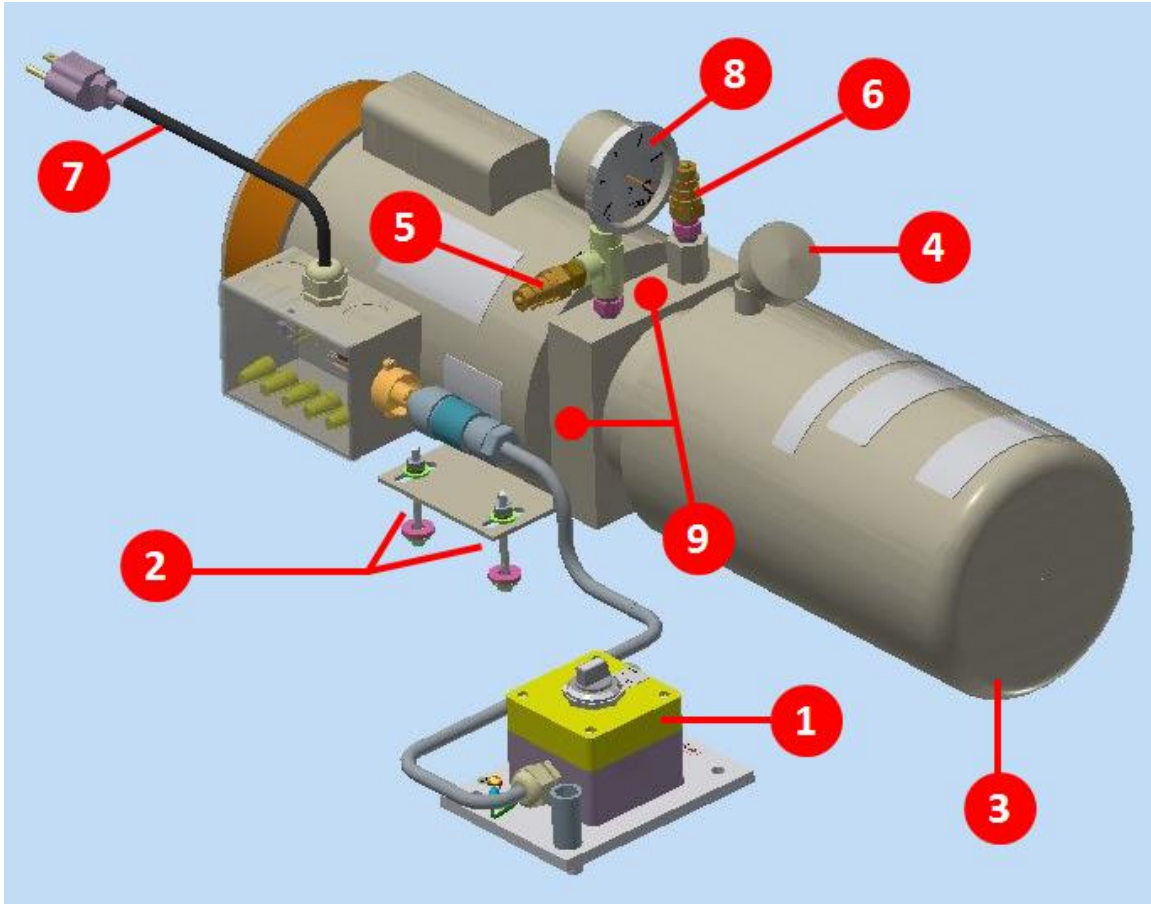
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# 1. Overview

The hydraulic power pack (110V, catalog #22-0004-0001 or 220V, catalog #22-0004-0002) is the hydraulic pump used for powering the components of JMITS panel. The power pack is shown in the figure below.

The instructions throughout this guide refer to the parts of the hydraulic power pack by the names and numbers as labelled below.




1	On/Off switch unit
2	Mount holes and set screws
3	Oil tank
4	Tank cap
5	Pressure out quick coupling
6	Return line quick coupling
7	Power cable
8	Pressure gauge
9	Recommended oil temperature checking point

## 2. Unpacking and Mounting

To set up the hydraulic power pack:

1. Carefully remove the hydraulic power pack from its packaging. Keep the power pack in its upright, horizontal position. (A small amount of oil remaining from factory testing may leak out if the unit is tilted or turned over.)
2. Unscrew the bolts that fasten the hydraulic power pack and the On/Off switch unit (1) to the wooden plank. Remove the plank.
3. Set the power pack onto a steady table. Place it in a position that allows you to continually observe the oil pressure.
4. Secure the power pack onto the table using bolts and the provided mount holes (2). You may use the bolts included in the packaging.
5. Ensure that the power pack is secured and does not wobble.

## 3. Filling up the Tank

 **Warning: The power pack is supplied without hydraulic fluid. Do not operate the power pack until it has been filled with hydraulic fluid.**

Use hydraulic fluid only to fill the tank. The SADOL S-300 or 10W oil types are recommended.

The oil tank (3) has a capacity of 5.7 liters (1.5 gallons). Fill the tank so it is at least two-thirds full (3.8 L). Do not fill the tank more than three-quarters full (4.3 L).






To fill the tank:

1. Twist open the tank cap (4) manually. Do not use any tools to open the cap.
2. Pour the oil into the tank using a funnel.



3. Reattach the tank cap to the tank. Do not use any tools for this step.

## 4. Operating the Power Pack

-  **Warning:** Ensure that the power pack's voltage rating matches your power supply's voltage.
-  **Warning:** Do not operate the power pack if it is not connected to an approved component.
-  **Warning:** Never leave the power pack operating unnecessarily or unattended.
-  **Warning:** The oil pressure of the power pack should operate at approximately 60 bar (870 psi – with +/- 5% tolerance). If the pressure exceeds 69 bar (1000 psi), turn off the power pack and call Intelitek Support.
-  **Warning:** Ensure that the oil temperature does not exceed 50°C (122°F). If the temperature rises beyond 50°C, turn off the power pack and wait for it to cool down. You can check the oil temperature at any time by applying a thermometer to the side or top of the power pack (location 9).

### To operate the hydraulic power pack:

1. Attach the hydraulic power pack's On/Off switch unit (1) to the panel at an easily reachable spot. The On/Off switch unit is mounted on a plate with bolts which slide into the slots on the panel, like all other hydraulic components.
2. Ensure that all the hoses that connect to components on the panel are securely fastened.
3. Connect the hoses from the power pack's pressure out quick coupling (5) and return line quick coupling (6) to the components on the panel.
4. Connect the power pack's power cable (7) to a grounded AC power supply outlet.
5. Turn on the On/Off switch (4). The power pack begins operation and the oil pressure rises.
6. Ensure that the pressure gauge (8) shows a constant pressure of 60 bar (870 PSI - within a tolerance of +/- 5%).
7. Turn off the power pack's On/Off switch when you are finished working with it.

## 5. Maintenance

### 5.1. GENERAL MAINTENANCE

The hydraulic power pack requires the following maintenance operations:

- Check the oil level every few uses and refill the tank as necessary. You should also check the oil level if the power pack operates at an abnormal pressure or if you hear irregular noises originating from the unit. Note that the oil level in the tank drops when fluid flows into new components and hoses that are connected to the system. For instructions on how to check the oil level, see section 5.2. Checking the Oil Level below.
- Completely change the oil in the tank once per year.

### 5.2. CHECKING THE OIL LEVEL

To check the oil level of the tank:

1. Obtain a thin stick (metal or wood) with a length of at least 25 cm (9.8 in).
2. Mark a line at one end of the stick.
3. Mark off two lines 10.5 cm (4.1 in) and 13 cm (5.1 in) from the marked end of the stick.



4. Open the tank cap (7). Do not use tools for this step.
5. Submerge the measuring stick, with its marked end first, into the oil until it hits the bottom of the tank. Ensure that you submerge the stick vertically and not on an angle.



6. Remove the measuring stick from the tank. The height of the oil should be between the two lines that you marked.



7. If the oil level is not between the two lines, add or remove oil as necessary.
8. Replace and tighten the tank cap. Do not use any tools for this step.