



Your Forever Working Partner

Manufacture & Quality Certificate

We hereby certify that the following KuDos product was manufactured in accordance with our specifications and has passed our quality inspection.

Item: Electric Hydraulic Pump

Model No: EP - 30AR

Serial No: 
AC314126Y

Inspection Date: 0726

Q.C. Supervisor: *W. Hsieh*

For KuDos Authorized
Distributor Use Only:

/ /
Date of Purchase (dd/mm/yy)

For Industry or Individual
Buyer Use Only:

/ /
Date of Purchase (dd/mm/yy)



Your Forever Working Partner

KuDos Mechanical Co., Ltd

SAFE OPERATION & MAINTENANCE INSTRUCTIONS

Electric Hydraulic Pump EP-30AR



SAFE OPERATION & MAINTENANCE INSTRUCTIONS MUST BE FOLLOWED

KuDos Hydraulic Pumps are carefully inspected for quality and tested for safety. We meet ISO 9001:2015, ISO 14001:2015, IECQ QC 080001 and ISO45001 :2018 & UVDB standards.



Safety Instructions

Follow ALL instructions to ensure safety

WORK AREA SAFETY

1. Keep the area around the equipment clean and free of obstructions
2. Bystanders should stay clear of the work area to ensure safety

PERSONAL SAFETY

1. Stay alert while using this hydraulic equipment to prevent serious injury. Do not use under the influence of drugs, alcohol or medicine.
2. Do not wear loose hair or clothes that may get caught while the equipment is in operation.
3. To reduce the risk of injury, wear nonconductive gloves and non-skid safety-shoes. Always wear protective eyewear.
4. Work safely. Maintain your balance and do not reach while operating hydraulic tools.

TOOL USE AND CARE

1. Do not use the pump if there are any abnormalities or damage to any of its components.
2. Keep out of the reach of children. All users should be familiar with its use before operating.
3. Inspect the pump before and after every use. Do not use this pump if it is damaged in any way.
4. Personal injury can be caused by operating damaged or poorly maintained tools. Check for loose parts before use.
5. Use only Kudos recommended accessories with this pump.
6. Do not use this pump in wet conditions. Store this pump in a dry place.

SERVICE

1. This pump must be repaired by qualified technicians. Do not attempt to disassemble or repair this pump yourself.
2. When having the tool serviced, always use identical Kudos replacement parts.

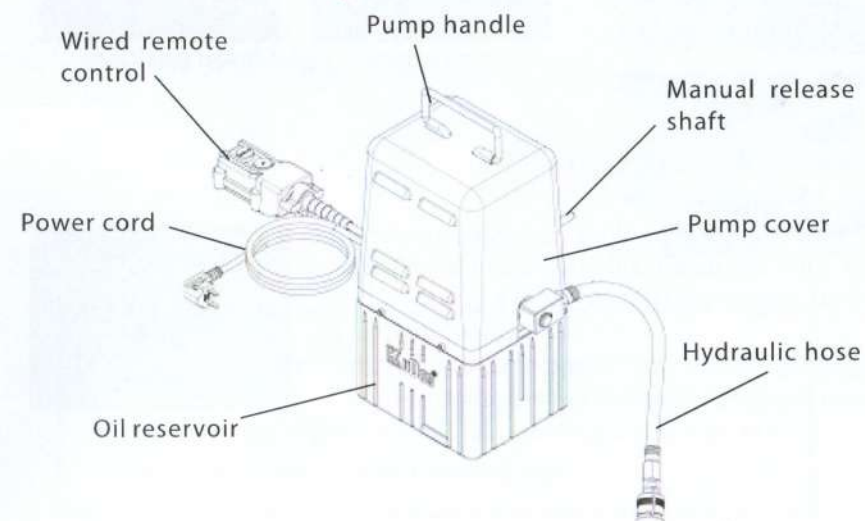
Product Description

SPECIFICATIONS:

- Dimensions: (L) 244 x (W) 160 x (H) 374mm
- Approximate weight: 17.6kg (w/oil)
- Max. pressure: 700 bar/10,000 psi
- Reservoir Capacity: 3L/ ISO VG 32
- Oil delivery:
 - *Low pressure - 2.6 L/min. (50KGF/cm²)
 - *High pressure - 0.32L/min. (700KGF/cm²)
- Single-phase 3/4Hp drive unit:
 - *50/60Hz, 110V/120V/220V/230V 350W engine
- Accessories: 2M hydraulic hose attached

FEATURES:

- Single-stage pumping action
- Wired remote control for easy advancing, holding or retracting of the hydraulic piston
- Auto-cycle mode
- Low amperage requirement
- Durable steel construction with built-in handle
- Visible oil gauge



System Features

Familiarize yourself with all system components before use:

1) WIRED REMOTE CONTROL

- The wired remote control allows the operator to advance, hold or retract at any time.
- Press 'UP' to run the motor and advance the piston. Press 'DOWN' to retract the piston and release the system pressure.
- When the button is released, the motor stops and the plunger remains in position for pressure holding.



2) AIR VALVE SETTINGS

- Make sure to open the air valve before you operate this pump.
- Always close the air valve before storing or transporting the pump.



Open position:



Closed position:

3) MANUAL RELEASE SHAFT

- When the machine does not work properly or suffers a power fail, this manual release shaft can be pressed to release pressure.

NOTE: Only use the manual release shaft when the pressure does not automatically.



Pre-Operating Instructions

1. Attach the wired remote control to the pump. Plug the electric plug into the electrical outlet.
2. Make sure the oil level is topped up to the indicated line on the oil level gauge.
3. Open the air valve before operating the pump.
4. Press the "DOWN" button on the remote control to release the internal pressure in the pump.
5. Securely attach the pump hose coupler to the tool head coupler to avoid any oil leakage, low pressure, or insufficient oil flow.
6. Position the tool head lower than the pump. Advance and retract the cylinder piston completely several times to remove any air trapped in the system.
7. The pump and tool head are now ready for operation.



WARNING:

All parts should have the same hydraulic pressure ratings. Make sure the equipment is assembled correctly and checked for proper function before use.

Operating Instructions

ATTENTION:

Wear safety goggles when operating this product.
Projectiles or hydraulic fluid can cause serious injuries

Release the hydraulic pressure from the system before
cleaning or servicing the pump or tool head.

1. Place the tool head in position, and ensure that all materials are in place. Press the 'UP' button to advance the tool head piston.
2. The pump will automatically stop when the pump pressure reaches 10,000psi. At this point, the fail-safe pressure release valve system will activate.
3. The pressure will automatically release when it reaches 10,000psi.
4. Repeat steps 1-3.
5. When you are finished, fully retract the piston before disconnecting the tool head. If the couplers cannot be dismantled, try again to release the internal pressure from the pump.
6. Close the air valve.
7. Wipe off any excess oil or dirt from the couplers or equipment parts and replace all plastic covers to the couplers.

Changing Hydraulic Fluid

To replace the hydraulic fluid:

1. The hydraulic system should be retracted before adding oil to prevent overfilling of the oil reservoir.
2. Unscrew and remove the air valve.
3. Lift the pump and pour the old hydraulic fluid out.
4. Pour in the new hydraulic fluid.
5. Ensure the oil level is higher than the red indicator, but not over the 80% level of the gauge.
6. Replace the air valve and make sure it is screwed in tightly.



Use a hex wrench to remove the air valve

ATTENTION:

- Use only new SHELL T32 hydraulic fluid or equivalent.
- Do not top up the reservoir with used oil, or mix different oils together.
- Using the incorrect type of oil will damage the seals in the pump and cause the pump to malfunction.

Maintenance

Follow these tips to ensure long product life:

- Routine renewal of pump oil is required. Particles mixed in the pump oil is the most common cause of product failure.
- Replace the pump oil after the first three months of use, thereafter, once every year. If the pump is continuously used, change the pump oil every 6 months.
- Keep the pump free of dirt and metal chips. Use some lubricant to clean the tool when necessary.
- Do NOT keep this pump in places with high temperatures, high humidity, or direct sunlight.
- Suggested working temperatures are -10°C to 40°C. Check hydraulic fluid specifications.
- Hydraulic fluid temperatures over 65°C might soften seals and cause fluid leaks.
- Inform KuDos® authorized distributors in case of any abnormalities or malfunctions of the product.
- DO NOT DISASSEMBLE OR ATTEMPT TO REPAIR THIS TOOL.

ATTENTION:

- Kudos pumps must be serviced by a qualified technician. Contact your Kudos® representative for more information.
- Replace any worn or damaged parts immediately. Do not use any parts not supplied by Kudos.
- Contact KuDos service representatives to request parts or for problems not shown here.

Trouble-shooting

There is insufficient operating pressure - >700bar/ 10,000psi:

- A. Check that the couplers are secured properly to prevent restricted oil flow.
- B. Inspect the pump output for possible pressure losses. Do not use your fingers when looking for fluid leaks.
- C. Test the pump to ensure it reaches 700 bar pressure. Never adjust the relief valve over 700bar.

Hydraulic pressure in the system will not build:

- A. Dirt is blocking the oil strainer and restricting oil flow. Clean the strainer and change the hydraulic fluid regularly
- B. Solenoid Valve assembly is obstructed by dirt or damaged, causing it to malfunction. Have the Solenoid assembly cleaned or replaced.
- C. There is not enough hydraulic fluid in the system. See instructions for refilling (p.9).
- D. The Pump Assembly is damaged and must be serviced.

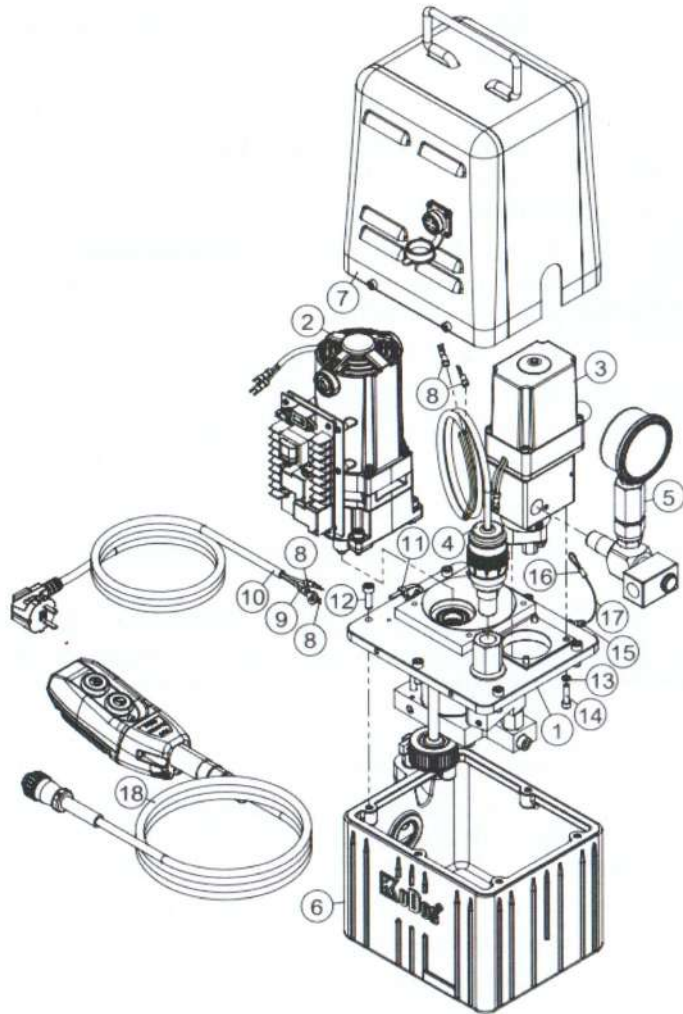
Tool head advances and retracts slowly:

- A. Hydraulic fluid is contaminated. See instructions for replacement (p.9).
- B. Hydraulic fluid is too hot from continuous pump operation. Allow the pump and hydraulic fluid to cool down.
- C. There is air in the hydraulic system. See pre-operating instructions (p.7).
- D. Pump Solenoid Valve assembly or Pump Assembly is damaged and must be serviced.

The pump does not function at all:

- A. There is no movement when the UP or DOWN buttons are pressed. Check that all cords are attached correctly.
- B. Other electrical problems will require an overhaul by our authorized service personnel.

Parts Guide



Part Number	Part Name	Q'ty
1	Pump Assembly	1
2	Motor and PCB Assembly	1
3	Solenoid Valve Assembly	1
4	Pressure Switch Assembly	1
5	Hose and Pressure Gauge Assembly	1
6	Oil Tank Assembly	1
7	Cover Assembly	1
8	Terminal	4
9	Terminal	1
10	Power Cord Assembly	1
11	Cable Tie	1
12	Screw	6
13	Washer	4
14	Screw	4
15	Terminal	1
16	Terminal	1
17	Steel Wire Rope	1
18	Controller Assembly	1

Safety Warnings

Carefully read ALL warnings before operating this machine

WARNING:	
	DO NOT attempt to disassemble or repair this product. Doing so will violate the terms of the warranty
	DO NOT exceed equipment ratings by adjusting the relief valve to over 700 bar (10,000 psi) pressure

WARNING:	
	Release the hydraulic pressure from the system before cleaning or servicing the pump or tool head.
	Use protective equipment when working near power lines, including insulated hydraulic hoses and gloves

 ATTENTION:
• The hydraulic hose is not insulated and not suitable for hot-line work • If you notice a leak on the pump, hose or tool, do not use your hands to look for the leak.

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Thank you for using KuDos® products. This manual must be read carefully prior to operating this product. Special attention should be paid to the section 'Safety Instructions'.

Damages and injuries caused by improper use of this product are NOT included in our warranty. We would like to remind you to work safely and to keep this manual on hand.