

INSTRUCTION MANUAL

SG-820H Hydraulic Surface Grinder (415V) 530 x 220mm Table Travel



G220

G220 SG820H

INSTRUCTIONS
FOR
HYDRAULIC SURFACE
GRINDERS
MODEL: SG-820H

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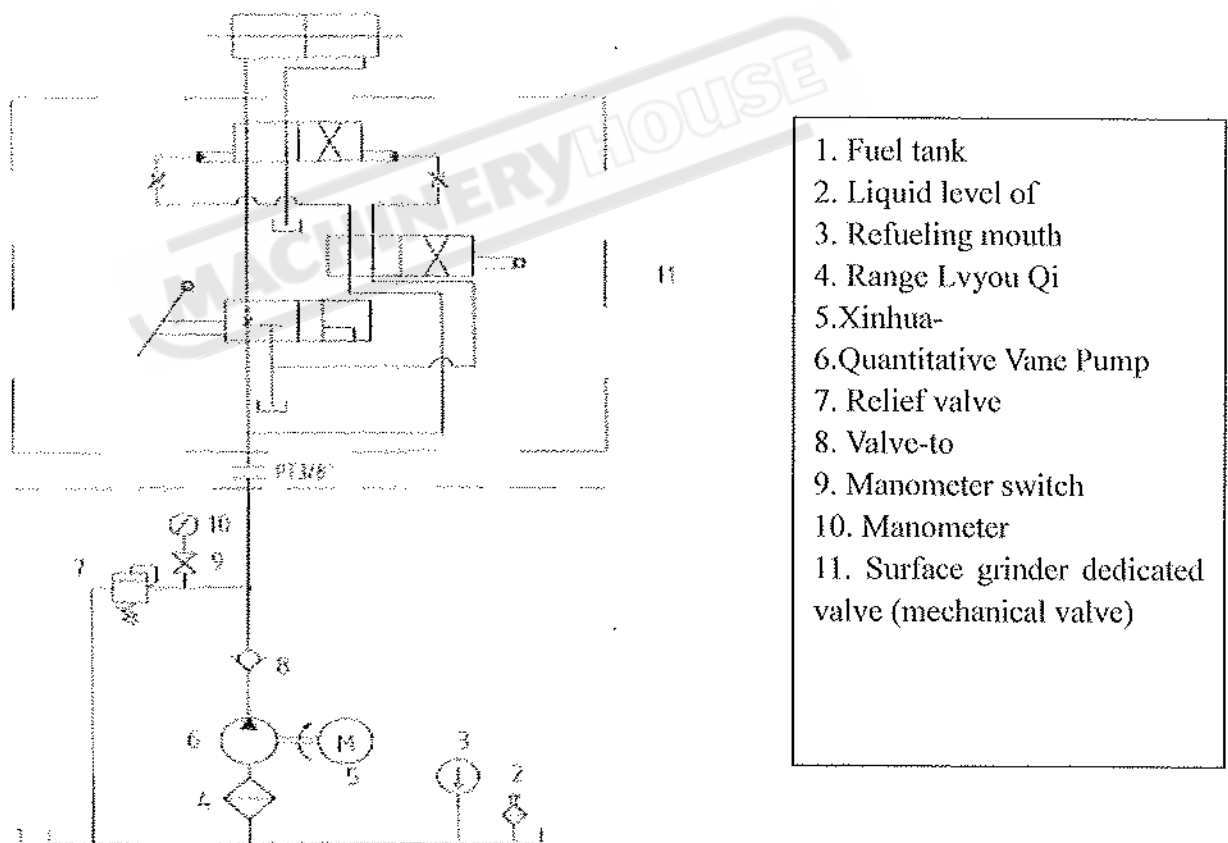
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1. surface grinder hydraulic system works:

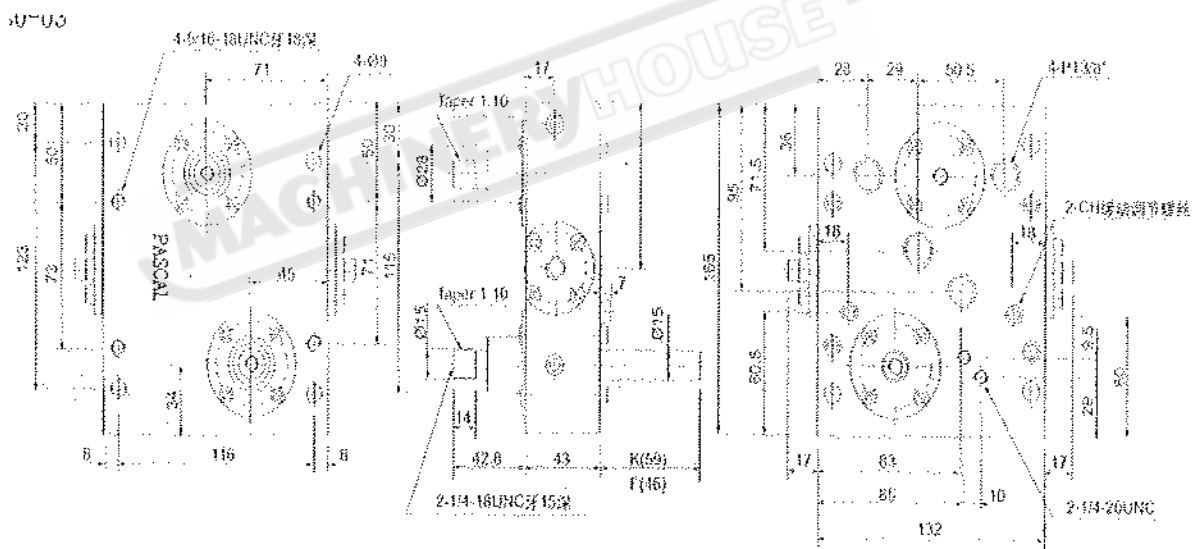
The table of longitudinal movement is changed from manual movement into the hydraulic system. The return of their table by the longitudinal movement is installed on board the trailer hydraulic cylinder hydraulic rod back and forth movement and a traction table back and forth movement. Movement and direction of its conversion programme is installed on the table from the itinerary of block and installed in the trailers board dedicated to the control valve machinery for the decision.

The working principle of the hydraulic system (see Figure 1)



(Figure 1) The hydraulic system schematics

The hydraulic system is composed of a motor quantitative pumping systems, the system pressure regulating valve from the oil spill. Systems for the main mechanical valve grinder dedicated valve, in two parts, machinery for control and throttle control to control. Throttle control are part of unloading capabilities that can achieve the Commitment table. The valve also has a buffer regulation. For the specific valve grinder. See attached map (Figure 2).



(Figure 2): The mechanical valve

Hydraulic automatic surface grinder main technical parameters: (see Table 1)

(Table 1) hydraulic surface grinder main technical parameters

Model		SG-820H
Table size (mm)		480×200
Max. table travel (mm)		530×220
Max. grinding area (mm)		520×220
Max. distance from table to spindle center (mm)		450
Table slide-way		Double V-type rail
Feed of Cross Handwheel	per revolution (mm)	2. 5
	per graduation (mm)	0. 02
Feed of Vertical handwheel	per revolution (mm)	1. 25
	per graduation (mm)	0. 01
Wheel speed (50HZ)		2850
While findr velocity (m/s)		≤35
Wheel size (WA46K5V)		8×3/4×11/4
Power of Spindle motor (W)		1100
Hydraulic station motor (W)		1500
Working Pressure (Mpa)		3
Max. runoff (L/min)		18
Fuel tank capacity (L)		80
Coolant pump (W)		40
Machine net weight (Kg)		750
Packing gross weight (Kg)		850
Machine size (M)		1.68×1.14×1.80
Packing size (M)		1.63×1.14×1.96

3. The functioning of the hydraulic system

3.1 hydraulic system pre-boot:

1) and fuel tanks are required to use mainframe-level adjustment, and fixed

properly.

2) electrical line of control as required to connect to the main control box, check whether the loose electrical wiring components, Xu Han.

3) 32, a mechanical hydraulic oil from the reserve tank by adding words to the fuel tank on the level of the ceiling only. After the tank Jiaman You can not start up immediately, such as the fuel tank to be in the bubble disappear naturally. Will handle the oil spill valve counter-clockwise relax.

3.2 functioning before the confirmation of

- 1) confirmed the oil tank of liquid level
- 2) check the connections of the main switch control board
- 3) Check the filter cleanliness, if necessary, can be replaced
- 4) Check whether there is a control device alarm signals, if necessary, reset the signal

3.3 hydraulic station and the functioning of the attention that matters

Preparatory work is completed, please follow the procedures of operation

- 1) on a main power switch
- 2) Press the power button
- 3) the need to open the pump work
- 4) No surveillance system in the state, we must downtime.

3.4 start-up operation:

To move the motor launch Motor Show me the direction of rotation, and

then officially launched Motors, unloading state, ruled out running 10 minutes in the air, targeting the fuel tank, oil spill valve regulator knob slowly and observe the pressure gauge to regulate the use of pressure . Reciprocating several times in normal operation.

3.5 filter

80% of the hydraulic system for impaired because of the dirty oil, the oil should be changed regularly, and timely replacement of filters. The system has 80 μ oil-absorbing filter in order to ensure the cleanliness of oil.

3.6 cooling

The hydraulic station cooling system uses natural cooling system can meet the cooling requirements.

4. Machine electrical panel plans and schematics

4.1-map of the electrical machine and button function map (Figure 3)

4.2 machine circuit (see Figure 6)

4.3 Electric operations (to do this in order to operate five of the electrical panel to explain)

4.3.1 using the machine before me on the first electrical cable access to the corresponding AC power, water pumps to pump electrical cable access, cable access to the hydraulic motor oil

4.3.2 rotating emergency switch button SB5, SB5 switch in a closed state.

4.3.3 press the point switch SB2, contact with a suction KM1, wheel

motor, wheel spin

4.3.4 press the switch SB1, disconnect the contactor KM1, Wheel motor stopped working.

4.3.5 in the wheel motor work Bandong SA1 switch to "ON" position, the pump motor work. Bandong SA1 switch to "OFF" position, the pump motor stopped working.

4.3.6 took to move the switch SB3, contact with a suction KM2, hydraulic motors, will table the itinerary block transferred to the appropriate location, rotating fuel switching to table the appropriate speed, and from the table to return Campaign, press switch SB4, disconnect the contactor KM2, hydraulic motor stopped working, working platforms stop working.

4.3.7 SB5 for exigency stop button, KM1, KM2 disconnect in the state.

Note: pre-wheel motor must first move the switch SB2, grinding head to see the direction of rotation, found that reverse rotation, we must stop immediately, transfer of power lines to avoid damage to grinding head loose.

5. The hydraulic system of Attention

5.1 The use of hydraulic oil to reach the accuracy NAS9-class, if pollution must be immediately replaced. Oil must not be lower than the level displayed.

5.2 in the hydraulic pipe fittings, bolt, twisting tight to prevent the earthquake-song.

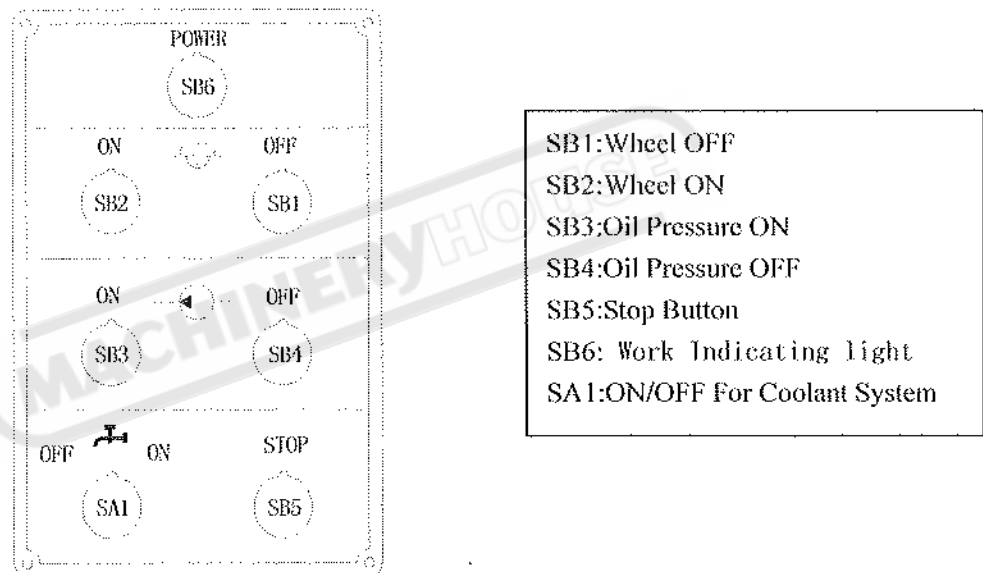
5.3 Where strange noise generated must immediately stands inspection

Oil Spill valve

5.4 factory has been set, do not random adjustment. Must adjust to the spin-song, gradually increase the pressure after the boot. The maximum pressure should not exceed 3 Mpa.

5.5 Circuit event of pipeline leakage should immediately stop operation, to repair.

5.6 in winter when the hydraulic system to idling (no load) five minutes and then start working platforms.



(Figure 3)

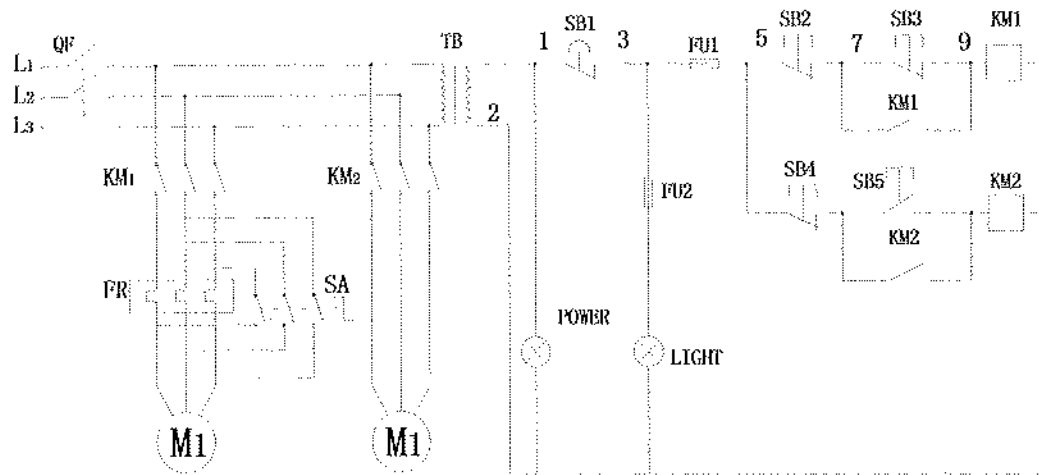
The electrical hydraulic grinder plate plans and functional plans button

6. Hydraulic equipment maintenance and fault corrected method

6.1 hydraulic equipment maintenance

6.1.1 hydraulic oil change once every six months, or under the circumstances, oil pollution-free, can be extended to replace the appropriate

SG-820H CIRCUIT DIAGRAM



- 10 -

Check relief valve, the valves are normal

Check whether there is a system of leakage

Check whether the Motor is correct

Check whether the normal flow valve adjustment

2.The implementation of components action check valve is not normal for it to normal

Inspection System pressure is normal

Check the implementation of the normal components

Mixed with air in the system

Related to the mechanical failure

Flow valves, pressure valve settings and adjustments

3.High oil temperature too much noise excessive pressure adjustment

The large flow of high-pressure relief valve uninstall

Viscosity of the oil pump.

Within the fuel tank less than

4.Too much oil absorption system noise filter plug, cleaning can be removed.

Oil, mixed with air, generally for the first time start-up occurred, more than run for a period of time, you can return to normal.