

Hydraulic machine of maintenance Press briquette compaction

DESCRIPTION

- The hydraulic press of briquette compaction is an hydraulic machine making it possible to carry out the hydraulic maintenance of system to jacks
- Support for adjustments activities, diagnosis, replacement of failing components and improvement of the system.
- The machine is able to be used only or joined with mixer MMH 102 and a system of conditioning of briquettes out of paperboards and palletization of the paperboards (consult us).
- The machine is delivered supplements, instrumented, with technical handbook and practical work.
- Material of industrial type.
- Teaching concerned: Maintenance of industrial systems and complementary mentions in hydraulics



Noncontractuelles illustrations

TEACHING APPLICATIONS *

- Adjustment of the hydraulic components for obtaining the nominal conditions of walk of the machine.
- Diagnosis and replacement of hydraulic and electrohydraulic components failing
- Implementation of measures of the characteristics flow and pressure for activities of adjustment and diagnosis
- Modification of the hydraulic installation for improvement of the operation of the machine

Technical description and activities of maintenance on press:

Structure

- Aluminum Frame anodized on wheels with brake section 90 * 45mm
- Structure of the system of steel press/assemblies screwed and welded
- Characterisation

Description of the system of pressing:

- system comprising 3 welded jacks
- operation of the cycle of pressing in electrohydraulic logic and being based on the use of hydraulic switching functions and electrohydraulic
- 1 room of precompaction allowing to proportion the volume of chips
- 1 room of compaction allowing the pressurization of the chips for agglomeration
- 1 cylinder head for compaction and evacuation of wood bricks with clamp of tightening
- minimum capacity of pushed jack of compaction under 100 bars: 5 tons

Sensors:

- 2 Pressure gauges pressure controllers of which one equipped with analogical transmitter of pressure
- encoders position mechanical with lever
- laser detector for detection of the filling of the room

Supervision (option):

- visualization of the state of the pre-actuators
- representation by diagrammatic hydraulics and emulation of posting of the magelis
- complete piloting/started/put moving of the machine
- reading of instantaneous measurements of pressure of rotation

Electric structure:

- general disconnecting switch of power supply
- standard module of safety PREVENTA coupled with the sensors of safety and emergency stop
- circuit breaker and differentials for protection
- piloting of the machine since the button manufacture located in the box
- posting number of revolutions on desk
- piloting, parameter setting and assistance with the diagnosis by standard IHM magelis

- Schneider automat with analogical chart
- control of pressure per chart of regulation
- possibility of substituting this direct order by order since supervision/connection on standard connector sub D for locking on box (RS485)

Description of the hydraulic components in initial version:

- 1 power station with engine 4 kw
- mini tank of 50L with gauge level and thermometer with contact
- 3 welded hydraulic actuating cylinders and ISO
- 1 gear pump 12cm³ approximately
- 2 electrodistributor 4/3
- 1 distributor 4/2 hydraulically-operated
- 1 electrodistributor 4/2
- 1 electrodistributor 3/2
- 2 electrodistributors with valves 2/2
- 1 valve of sequence
- 1 limiting device of pressure proportional
- 1 amplifier of flow under limiting device of pressure proportional
- filter return with clogging indicator level
- components in establishment CETOP 3 and line
- pressure controller with analogical transmitter of pressure

Activities for functioning crusher only or in line (any defective material and of provided replacement)

- Adjustment of the limiting device of pressure to ensure the maximum effort of the press
- Diagnosis and replacement of a jack with internal escape
- Diagnosis and replacement of a valve of defective sequence
- Integration of a system proportional of regulation of pressure allowing to control the rise in pressure of the system of compaction
- Analysis of operation by measurement of information of control: pressure and tension of instruction (measurement on banana plugs standard doubles well)

UTILITIES: Electricity: 400 VAC will tetra 20A - 50/60 Hz

VOLUME of INSTALLATION WRAPS NET (Lxlxh in mm): 2000x1700x1600/500kg