



## **GS-F SERIES HYDRAULIC COLD PRESSES**

### **SERGIANI GS-F**



*Above picture is purely informative*

#### **MAIN ADVANTAGES**

- **FRAME engineered with a high safety coefficient**
- **HIGH-PRECISION MECHANICAL PROCESSING**
- **WIDE RANGE AVAILABLE – from 20 to 200 tons thrust**

## **CONSTRUCTIVE FEATURES**

Structure made of welded and normalised steel beams.

The constructive design guarantees the highest level of resistance and rigidity in each pressing phase for obtaining the best gluing quality of the pressed product.

The components are all machined on cnc machining centres to grant the three-dimensional verticality of the structure and then assembled on precision templates.

## **HYDRAULIC UNIT**

It consists of a double pump and related electric motor dipped in hydraulic oil for a longer life and lower levels of noise.

The first pump has a high capacity and low pressure for a fast platen closing with exchange valve to switch quickly to the second high pressure pump.

To ease check and maintenance operations all the groups are in a single unit: high and low pressure pump, oil filter, control and safety valves.

The cylinders are stress relieving treated to eliminate the mechanical stress created during welding. The alloyed steel rod is chromed with a thick layer and then rectified. Assembling is carried out with particular care and constant control of the dimensional tolerances. High resistance gaskets to grant a perfect and long lasting seal over time. The large dimensions special flanges grant a perfect guide of the rod even at its maximum stroke.

## **FLATNESS CONTROL**

The press is equipped with a mechanical system with 2 couples of racks, pinions and torsion bars for a perfect longitudinal and transversal control of the mobile platen movement.

It is furthermore provided with adjustable side guides, for the sliding of the platen.

## **OPERATOR PANEL**

Electric control panel complete with:

- manometer for pressure adjustment with automatic pressure loss recovery device due to the material being pressed (NOTE: pressure loss recovery device is optional for gs-f 4/20 and gs-f 6/30 models);
- button for mobile platen handling;
- ON/OFF control switch;
- timer for pressing time control;
- current light indicator;

Sheathed electrical cables and protection ducts for the safe connection to the central cabinet.

Central electrical cabinet for all operating functions, to allow a unique connection to the customer electricity grid.

The opening and closing of the platens is realised by means of bimanual control.

## **OTHER EQUIPMENTS AND FEATURES OF THE PRESS**

- Lifting hook for an easy machine loading/unloading during transport.
- Levelling devices mounted at the feet of the press.
- Electrical cabinet integrated into the press, reducing external cables which are anyway adequately protected.

## SAFETY SPECIFICATIONS

It is compulsory to select one of the safety norms codes present on the price list.

### Codice produttivo: SERGIANI GS-F

**EP0358 CE safety regulations for sergiani GS-F**

**N. 1**

Special care and attention has been paid to operator safety, equipping the press with the following serial devices:

- Perimeter **safety cable** to block the platen stroke in case of emergency, by anywhere around the press. The cable ends on a micro-switch with manual reset. The cable is external to the press frame for an easy access.
- Safety timed **double operating non-release hold push button**
- **Push button for emergency stop** of the press
- Main switch prearranged for **locking with padlock**

All parts that could create a danger are marked with **accident prevention signalisation** according to EC standards, or protected with safety nets.

**RP0143 Sergiani GS-F 4/60 25-13 PF (4 cylinders D.70 mm - 60 ton. platens from 2500x1300mm)**

**N. 1**

### Technical features

Press platens dimension	mm	2500 x 1300
N° of vertical pitons - diameter	mm	N°4 Ø 70
Press platen thrust	ton	60
Mobile platen		Bottom (bottom-up closing system)
Specific pressure on the 80% of the press planten	kg/cm <sup>2</sup>	2,31
Standard opening between press platens	mm	400 >> UPGRADE TO 650MM
Loading side	mm	2500

### gs-f range - PF Platens features

**N. 1**

The bottom mobile platen and upper fixed platen frame consists of welded beams assembled together by means of jigs.

The platens are composed by a chipboard panel covered with an aluminium sheet.

**930731 Volt 400 EU**

**N. 1**



**931201      Frequency 50 Hz      N. 1**

**EP0361      650 mm Cylinders stroke      N. 1**

When selecting optional “650 mm. cylinders stroke”, the machine standard opening is equal to 650 mm.

**EP0414      Seaworthy packing dimensions 2500x1300      N. 1**

**109991      Machine language: ENGLISH      N. 1**