

Support and adjustment device for temporarily holding products at altitude near vertical surface comprises a suction cup assembly designed to attach to the vertical surface, a lifting mechanism, and a platform designed to support the product altitude and near to the vertical surface, and a connecting arm designed to connect the suction cup assembly and the lifting mechanism. The lifting mechanism consists of a lower telescopic tube and an upper telescopic tube inserted into it, to which a jacking mechanism is attached. A bolt-and-nut clamp is mounted on the lower telescopic tube, designed to secure the position of the upper telescopic tube relative to the lower telescopic tube. The jack mechanism consists of a frame, a rod, a movable lever with a drive plate, a lower vertical spring, an upper vertical spring, and a locking plate with a through hole. The lower vertical spring is mounted at the bottom of the frame. The upper vertical spring is mounted at the top of the frame. A rod is inserted vertically into the top of the frame; inside the frame, from top to bottom, it passes alternately through the upper vertical spring and through a through-hole in the drive plate, which is mounted below the upper vertical spring and is connected to both the moving lever and the rod. Шток просунутий через нижню вертикальну пружину та через наскрізний отвір пластини-фіксатора, яка встановлена з можливістю руху під верхньою вертикальною пружиною і має зчеплення з штоком. The rod is inserted through the lower vertical spring and through a through-hole in the retaining plate, which is mounted so that it can move beneath the upper vertical spring and engages with the rod. The rod is mounted in the frame within the upper and lower vertical springs, in the drive plate, and in the locking plate, allowing it to rotate freely about its own axis. The lower vertical spring is located above the retaining plate and has contact with the retaining plate, which is mounted at an angle of 10° to 20° relative to its own central axis. The edges of the through-hole in the retaining plate are in contact with the rod. Attached to the top of the rod is a platform that includes a horizontal surface with two vertical side rails and a mounting element for attaching to the rod. The suction cup assembly consists of an upper and a lower vacuum cup, each of which serves as a mechanism for attaching to and detaching from a vertical surface. The upper and lower vacuum suction cups are rigidly connected to each other by a handle with a circular cross-section. A connecting arm with a circular cross-section is attached perpendicularly using a connecting and clamping device. The connecting and clamping device comprises two clamping elements that are mounted vertically on the handle of the suction cup assembly and are designed to be clamped and released on the handle, a bolt for clamping and unclamping the two clamping elements on the handle, and a connecting means that is horizontally connected to the connecting arm. Between the two clamping elements and the handle, specifically on the handle, there is an insert that has a C-shaped cross-section. The connecting arm on the other side is connected to the lower telescopic tube of the lifting mechanism with a T-shaped clamp, which consists of a horizontal tubular section and a vertical tubular section joined together, the latter being designed to be clamped. The horizontal tubular section of the T-shaped clamp is slid onto the connecting arm, and the vertical tubular section is slid onto the lower telescopic tube of the lifting mechanism.