

A reciprocating compressor comprises a base frame which houses a crank mechanism consisting of a crankshaft adapted for connection to a motor, and connecting rods. The crankshaft is mounted in main bearings, one of which is a thrust bearing. The small ends of the connecting rods are mounted in crossheads disposed in crosshead guides, and the big ends of the connecting rods are connected to crankpins of the crankshaft. Compressor cylinders are fastened in the base frame via the crosshead guides and are connected to the crank mechanism by piston rods connected to the crossheads. The device additionally contains suction and deliver buffer tanks. In the upper portion of the base frame, between the longitudinal walls, there are mounted braces with adjustable spacers on the ends thereof, by means of which the braces are connected flush to the base frame. The crankshaft has oval journals. The thrust bearing comprises a cap having thrust half-washers mounted therein. The crosshead guides are provided with longitudinal stiffening ribs. The rods of the compressor cylinder pistons are connected to the crossheads by nuts and counternuts having annular grooves in the body thereof.