

Screw conveyor-mixer working element consists of a shaft with a screw. The screw is assembled from three blade spirals of the same outer diameter and pitch, the base blade spiral of which is rigidly fixed to the shaft, while the other two are L-shaped with solid cylindrical inner sections and spiral blade sections on the outside. The L-shaped spirals are located on both sides of the base blade spiral, with their inner surfaces in contact with the shaft and their end surfaces in contact with the base blade spiral. The blade width of all spirals is the same and is half the width of the gap between them in each spiral; additionally, the L-shaped spirals are secured to the shaft at their ends with mounting screws, allowing them to rotate relative to the shaft.