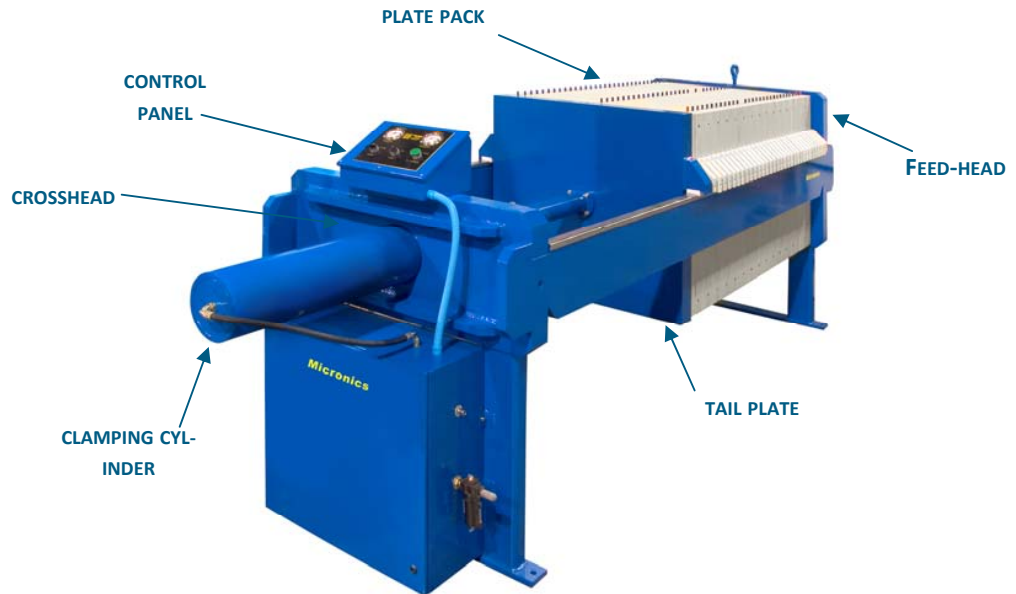


## THE FUNCTION OF A FILTER PRESS



A FILTER PRESS IS AN ECONOMIC AND EFFICIENT LIQUID SOLIDS SEPARATION DEVICE.

AT ONE END OF THE MACHINE IS THE FEED-HEAD CONTAINING PIPING FOR THE SLURRY DELIVERY. AT THE OTHER END IS THE CROSSHEAD CONTAINING A CLAMPING MECHANISM. A MOVING PLATE (THE TAIL PLATE) CLAMPS THE FILTER PLATE PACK. THE PLATE PACK COMPRISES A NUMBER OF FILTER PLATES FORMING CHAMBERS FOR SOLIDS COLLECTION. A FILTER MEDIA (WHICH MAY BE A WOVEN CLOTH, FELTED CLOTH, COATED MEDIA OR PAPER) IS SUPPORTED BY THE PLATES OF THE PLATE PACK. SLURRY IS PUMPED INTO THE CHAMBER AND AGAINST THE FILTER MEDIA. LIQUID (THE FILTRATE) PASSES THROUGH THE FILTER CLOTH AND EXITS THROUGH THE FILTRATE PORTS OF THE FILTER PLATE. THE SOLIDS (FILTER CAKE) COLLECT ON THE SURFACE OF THE FILTER CLOTH WITHIN THE CHAMBERS UNTIL THE CHAMBER IS FULL. THE CAKE MAY BE WASHED OR BLOWN DRY IF NECESSARY. FILTER CAKES ARE THEN DISCHARGED AND THE FILTRATION CYCLE IS COMPLETE.

MICRONICS FILTER PRESSES ARE AVAILABLE IN MANUAL AND FULLY MECHANIZED MODELS; WITH AIR OVER OIL OR ELECTRO-HYDRAULIC CLOSING SYSTEMS. THE MACHINES HAVE A MODULAR DESIGN AND MAY BE UPGRADED AS REQUIRED.

MICRONICS FILTER PRESSES ARE RUGGED HEAVY FABRICATIONS MANUFACTURED TO PRECISELY ALIGN AND EVENLY DISTRIBUTE THE CLAMPING FORCES REQUIRED TO COUNTERBALANCE THE FORCES GENERATED DURING PRESSURE FILTRATION. WHEN PROPERLY INSTALLED AND MAINTAINED THESE BALANCED FORCES EVENLY TRANSFER ONLY THE ACTUAL WEIGHT OF THE FILTER TO THE SUPPORT LEGS.

