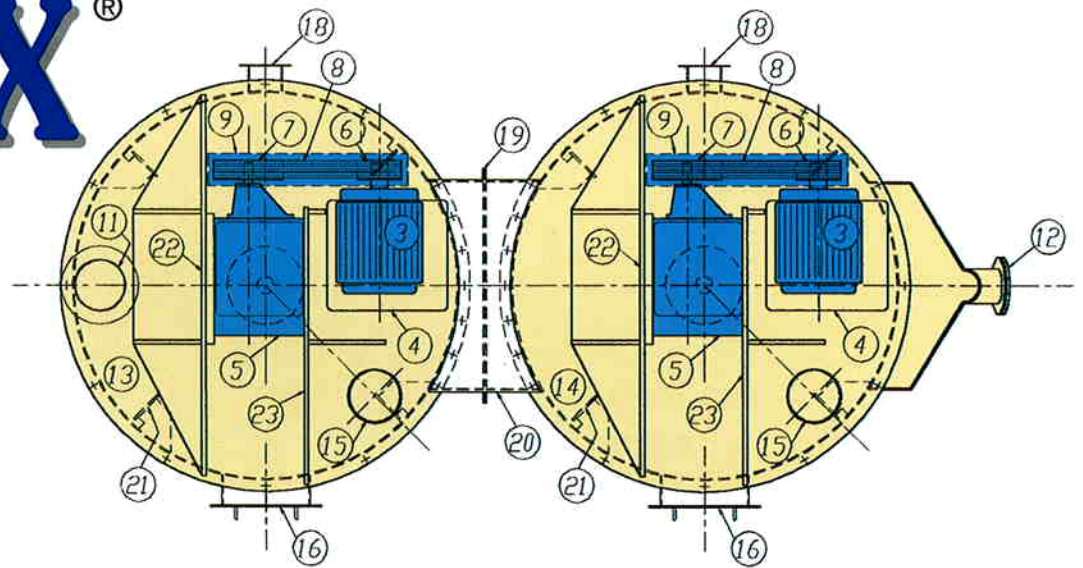
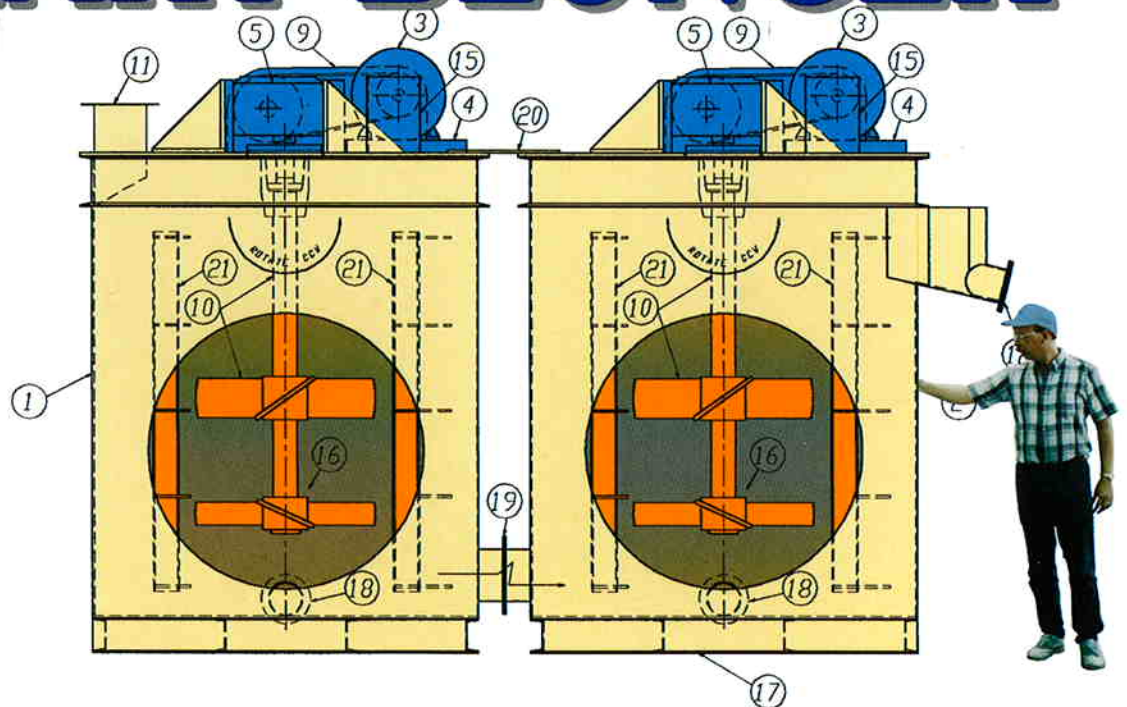


IMPEX[®] TWO CELL PRIMARY BLUNGER



The **IMPEX Two Cell Primary Blunger** represents the evolution of the IMPEX Delaminator that has been re-designed for sandy crudes that are easy to blunge. The sand in the crude is used as a grinding media for assisting the blunging action. This mill is also used following the IMPEX Mine Blunger to extend the blunging time and to eliminate any pinheads of clay particles in the slurry that would normally report to waste in the degritting stage. This elimination of pinheads increases the overall yield of product from the crude as shown on the blunging test on the back page. A small modification of this mill makes it also suitable for a very efficient delaminator.



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FEATURES OF IMPEX TWO CELL PRIMARY BLUNGER

TWO CELL VESSEL

The IMPEX Two Cell Primary Blunger is designed with two cells that are rigidly fastened together at the top with a heavy plate and at the bottom with a large opening flanged connection. The units are designed for long dwell time with protection from short circuiting of feed.

TWIN SHAFTS AND DRIVE

Each cell has its own shaft with propellers, motor, v-belt drive, gearbox and extra heavy adjustable coupling for true alignment of shafts. Shafts and drives are identical in each cell.

LINING

All wetted surfaces of the vessel, shaft and propellers are protected with 12mm (1/2") thick special rubber coating vulcanized to the surfaces to prevent abrasive wear.

PROPELLER PITCH

Each shaft has two 1066mm (42") diameter propellers. The top propeller has a 150 percent pitch with downward flow while the bottom propeller has a 100 percent pitch with an upward flow. This opposing action along with internal baffles creates intensive blunging action.

INTERNAL BAFFLES

Each cell has four (4) internal baffles the length of the straight wall to assure turnover, mixing and thorough blunging of feed material.

AIR VENTS

Due to the intensive action within the blunger, 304mm (12") air vent ports are installed on each cell.

MOTOR AND DRIVE

Each cell is driven by a 100 HP, 1750 RPM, 480/380 v, 3 Ph, 60/50 Hz, TEFC, 1.15 SF motor, v-belt drive with guard, a self-lubricating, high efficient, rigid supported helical gearbox with a 220 HP rating.

RIGID COUPLINGS AND SHAFTS

An extra heavy tapered cone shaped coupling with flanges is used to connect the heavy duty shaft to the gearbox. This special adjustable coupling permits true alignment of the shaft.

FEED AND DISCHARGE PORTS

The feed and discharge ports may vary with customer requirements, but normally the feed is a 304mm (12") fabricating flange inlet while the discharge is a 203mm (8") 150 psi flanged port.

MAINTENANCE ACCESS

A bolted 508mm (20") manhole is installed in each cell for maintenance purposes.

DRAIN PORTS

Each cell has an 203mm (8") 150 psi flanged outlet for draining the cells.

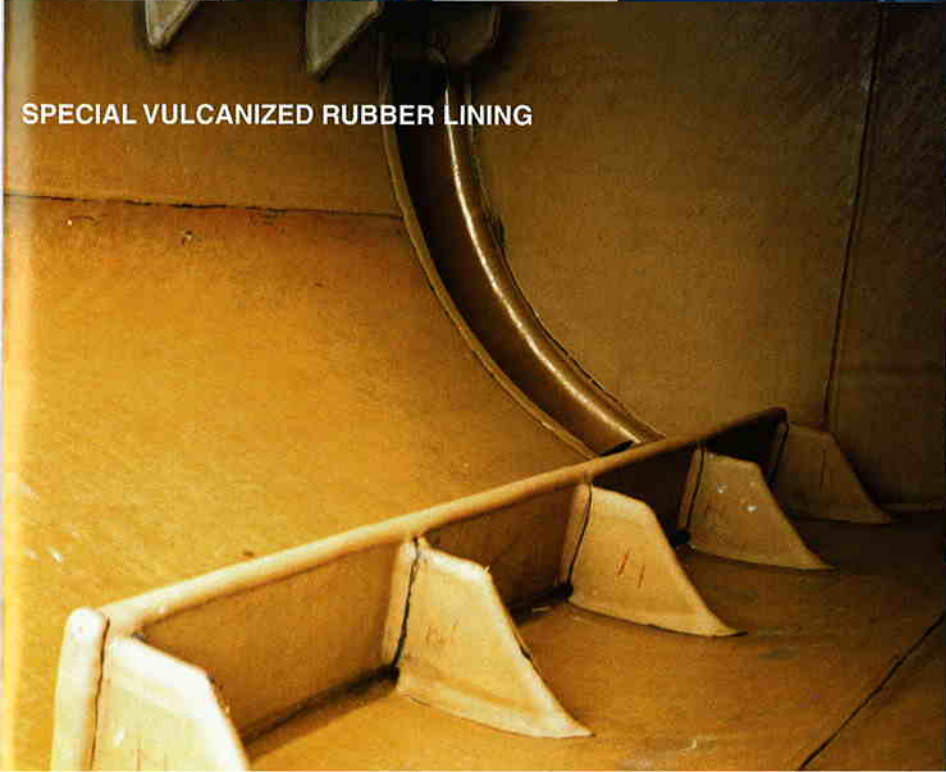
MAINTENANCE

Most of the maintenance problems are created by improper shut-downs or start-up procedures. However, preventive maintenance programs including oil changes in the gearboxes plus periodic inspection of the rubber lining will give years of trouble free operation. An owners manual with operating and maintenance advice is included with each order.

PRECISION SHOP FABRICATION



RIGID MOUNTED GEARBOX AND DRIVE



SPECIAL VULCANIZED RUBBER LINING



FINAL ASSEMBLY AND INSPECTION



SHOP RUNNING AND TESTING