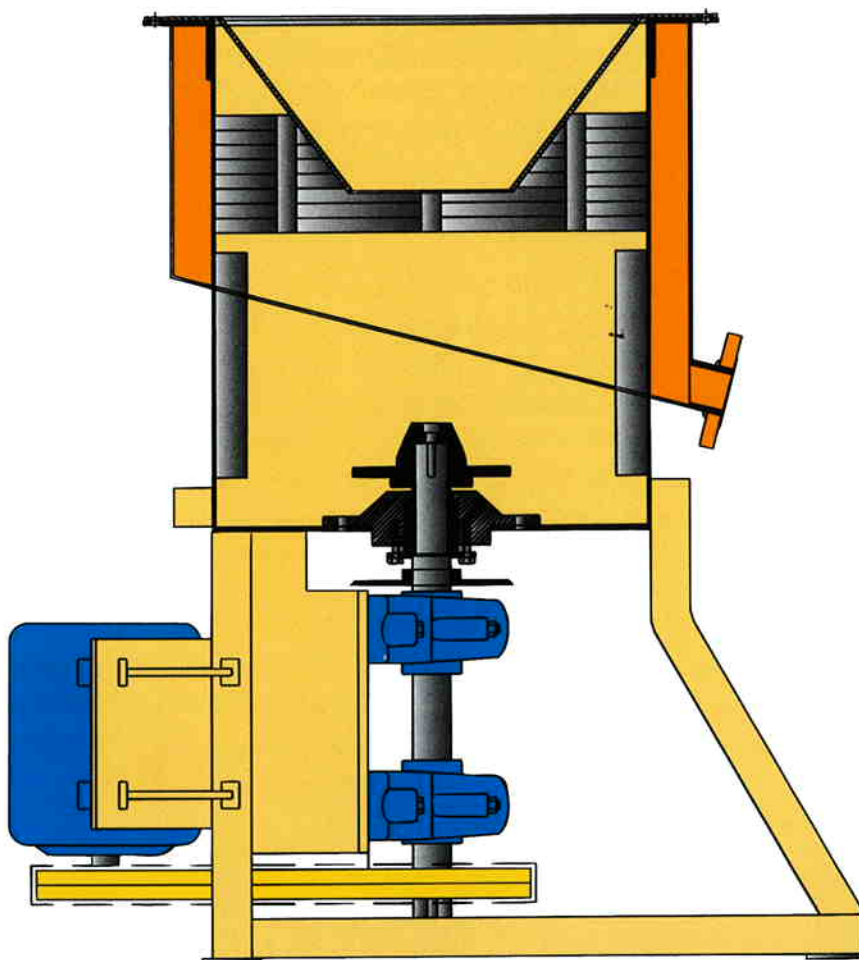


# IMPEX<sup>®</sup> PILOT PLANT BLUNGER

The **IMPEX Pilot Plant Blunger** is a scaled down version of the production mine blunger universally used in the kaolin industry. Pilot plant work can be scaled up to production size mills, which are available up to 2.8 M (9') diameter and 800 HP drive, having crude dry tons capacity of 100 tph. The basic blunging technology has been used in the kaolin industry for over 40 years with production and maintenance improvements made over the years to each succeeding unit.



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# FEATURES OF IMPEX<sup>®</sup> PILOT PLANT BLUNGER

## FEED HOPPER

546mm (21.5") inlet x 203mm (8") outlet cone bolted to top. Bottom drive system allows for easy feeding from drums or bags into feed hopper.

## MAIN SHAFT

AISI 4150 high strength steel designed for 40 HP load with two - 2 bolts special duty P.B. bearings with slinger for protection. Shaft has stuffing box with replaceable bronze bushing and bronze lantern ring. Rotor hub has expeller vanes on its underside to reduce pressure on seal. Shaft has replaceable wear sleeve with tungsten carbide finish polished for extended wear life.

## CUTTER BLADES

Available in various alloys and hard-facing, constructed so that contact angle and diameter can be adjusted, depending upon application. Cutter blade and stuffing box are replaceable.

## SCREENS

Four screens 152mm (6") high x 304mm (12") long constructed of 3mm (1/8") SS well-wire bolted in SS frames are standard design, but may be varied with customer's requirements.

## MOTOR

20 HP, 1800/1500 rpm, 3 pH, 60/50 Hz, 480/360 V, TEFC, 1.15 SF motor designed for vertical, shaft down operation complete with adjustable motor base.

## DRIVE

V-belt drive complete with driver and driven sheaves, taper-lock hubs, and guard.

## BLUNGER CHAMBER

Blunger chamber is 559mm (22") diameter x 60mm (26") high constructed of carbon steel or 316 SS. Chamber has replaceable screens and four (4) vertical baffles. Ample maintenance access to the chamber is provided by removing the bolted hopper. Chamber has 50mm (2") pipe sleeve drain outlet.

## UTILITY CONNECTIONS

Feed material is fed into the hopper. Water and chemicals connections are 12mm (1/2") and 6mm (1/4") through bottom plate. Stuffing box has a seal water connection for 6mm (1/4") threaded pipe.

## LAUNDER

Product collection launder is constructed of carbon steel or 316 SS with 50mm (2") flanged outlet port.

## BLUNGER SUPPORT

Blunger has tripod self-supporting base design that may be bolted to foundation.

## CAPACITY

Normal retention time in a large production mill is 5-7 minutes. The internal working volume of the pilot plant blunger is 132 liters (35 gals). With 45-50% feed solids, the capacity rate is 1000 kgs/hr. (~2200 lbs/hr.) at 6 minutes retention time.

## MAINTENANCE

The design of the pilot plant blunger is based on maintenance experience with production mills up to 600 HP.

## OWNERS MANUAL

An Owner's Operating and Maintenance Manual is furnished with each order.