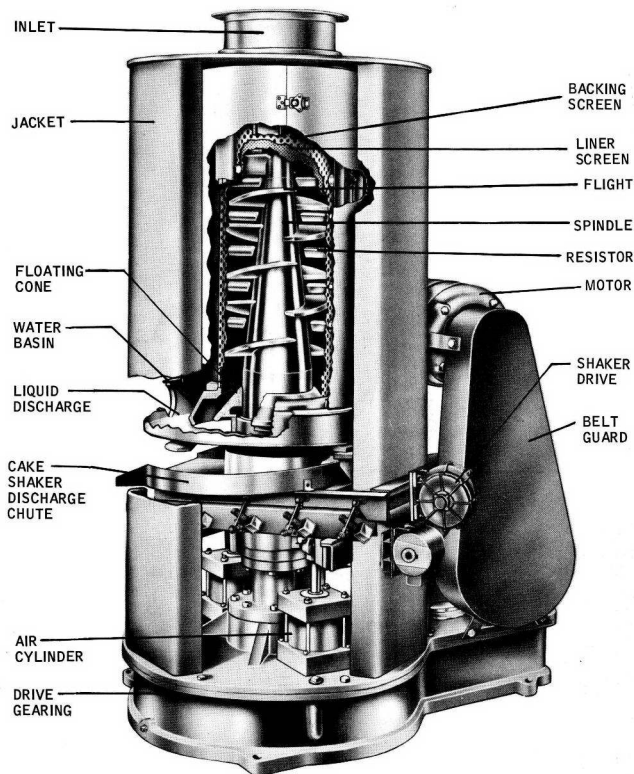




JONES PRESSMASTER

The JONES Pressmaster is an automatic vertical screw press for separating liquids from solids. Of rugged, simple design; produced with exacting manufacturing standards, it is a continuous operating press that performs heavy-duty work on a 24 hour basis year round with minimum maintenance. The Pressmaster excels in systems for pulp drying, high consistency refining and general pulp dewatering. It also performs excellently in the food and chemical industries. Pressmasters are available in four sizes; two models in each size, standard and heavy duty. This facilitates matching the proper Pressmaster to the production rate required. Three spindle types are available, in designs to cover materials having different pressing characteristics.

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DESCRIPTION

The Pressmaster is a vertical screw press, with its inlet opening conveniently located at the top and liquid and solid discharge below. Top inlet opening permits either gravity or pressure feed. The Pressmaster has relatively low overall height enabling it to be utilized in locations with low overhead.

Located in the center of the Pressmaster is the spindle, the main working element. The spindle is of tapered design and supports double lead helical screw members (called flights) around it for most of its length. The small diameter of the taper is at the inlet end; the large diameter mates into the "floating cone". In this way a progressive compression chamber is constructed through which the material moves. Three different spindle designs are available that provide selection to ensure optimum pressing efficiency for all kinds of materials.

Flights rotate within the confines of the screen; this presses the liquid out through the screen while retaining the solids inside. Diameter of the flights is sized to provide a very close fit within the screen I.D. Projecting radially inward from the screen frame are static resistors, located so that the interrupted flights rotate between them to prevent the pressed material from rotating with the spindle and to direct the material downward. The screen is hinged for access to the interior.

A set of light-weight easily removed jackets surround the screen forming an annular liquid drain space.

The "floating cone" mates around the base diameter of the spindle. It is supported and positioned by two air cylinders mounted opposite each other on the base.

APPLICATIONS

ITEM

APPLES
BREWERS GRAINS
CARROTS
CITRUS WASTE
COFFEE GROUNDS
CORN FIBER
CORN GERM
DISTILLERY GRAINS
FISH
GLUE TANKAGE
GRAPES
PECTIN SLURRY
PINEAPPLE
RUBBER, RECLAIMED
SLUDGE
SUGAR BEET PULP
TOBACCO
TOMATO WASTE
VEGETABLES, MIXED
VISCOSE
VISCOSE ALPHA-CELLULOSE
WOOD PULP

Pressure within the cylinders is regulated according to the type of material being pressed. Initially, at start-up, the cone is in a sealed position; when the force of the compressed material exceeds that established by the cylinders, the cone moves down and solid matter (cake) extrudes past the cone out to the cake shaker. There it is discharged from the press.

Mounted on the base is the primary gear reducer and power input shaft. The base itself doubles for the press secondary spur gear reduction housing and the mounting base. Motor and drive units may be mounted directly on the press or adjacent to it on the floor.

Reduction gearing and base drive gear housing are lubricated in an oil bath. Bearings are grease lubricated or may be supplied with positive lubrication by the Trabon Proportioning Lube System. This is a pressurized grease lube system that assures consistent proper lubrication.

All models are particularly designed for sanitary requirements in food, chemical and allied industries. Stock material and liquids move and flow, cleanly and freely. There are no pockets or crevices to trap any material.

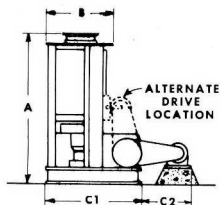
Pressmaster hydraulic drives (optional) are designed to provide constant torque at a specified maximum Hp and a given spindle RPM. The drive protects the press from any possibility of overloading.

Quick-opening light-weight jackets and hinged screen, permit ease of inspection and cleaning. A typical one man cleaning job takes approximately 15 minutes. The spindle may be removed or replaced without moving or dismantling the press.

PROCESS OR PRODUCT

Juice
Dewater for Cattle Feed
Juice
Dewater for Cattle Feed
Dewater for Fuel
Dewater for Cattle Feed
Oil Extraction
Dewater for Cattle Feed
Oil Extraction & Fertilizer
Liquor for Glue & Gelatin
Juice and Wine
Water & Alcohol Extraction
Juice & Dried Pomace Cattle Feed
Wash Operation
Dewater Prior to Incineration
Dewater for Cattle Feed
Liquor Extract
Juice Extraction from Cooked Pomace
Vegetable Juice
Dewatering
Dewater to Remove NaOH
Dewatering

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GENERAL DIMENSIONS

(not to be used for construction) (values in inches)

SIZE	A	B	C1	C2
P40, 42 & 45	88	40	52	-
P100, 125 & 150	104	44	61.6	40
P200, 225 & 250	142	60	81.3	45
P300, 325 & 350	171	76.3	98.6	50

SPECIFICATIONS

SIZE STD=STANDARD HD=HEAVY DUTY	P40 SERIES	P100 SERIES STD HD	P200 SERIES STD HD	P300 SERIES STD HD
NOMINAL CAPACITY tpd (bd)	2 20	5 40	10 80	25 150
MOTOR hp (max)	5	10 15	20 30	40 50
FLOOR SPACE inches	40 x 52	44 x 102	60 x 126	77 x 150
SHIPPING WEIGHT 1000 lbs.	3.5	7.1 7.9	15.2 16.0	26.5 28.3

Each model includes the complete machine with drive, V-belts, belt guard and motor sheave, less motor and starter. The unit will be furnished with two liquid discharge connections and an alternately positioned cake discharge.

OPTIONAL EQUIPMENT

Selection of Materials
Hard Faced Spindle Flights
Vari-drives, Hydraulic Drives
Mount for Alternately Located Motors
Pre-dewatering Inlet

Inlet Adapters
Pulp Discharge Chutes
Removable Liner Screens
Controls for Manual, Semi-automatic
or Automatic Operation

SPINDLE CONFIGURATIONS



SERIES 0 & 00

SPINDLE FOR
COMPARATIVELY
EASY DEWATERING
MATERIALS



SERIES 2 & 25

SPINDLE FOR
DIFFICULT
DEWATERING
MATERIALS



SERIES 5 & 50

SPINDLE FOR
EXTREMELY
DIFFICULT
DEWATERING
MATERIALS



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