

PETER PUGGER



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The Peter Pugger Advantage

Quality, Durability & Proven Performance... Why Settle For Anything Less?

Peter Pugger's World Famous Mixing Pugmill is the complete clay processing machine.

With over 50 years of proven performance, Peter Pugger's state-of-the-art mixing pugmill is the simplest, most effective design on the market today.

Capable of batch mixing any combination of wet, dry, greenware, slip, slop, powder and scrap. Recycle without slaking, wedging or constant force feeding. Robust construction combined with innovative design makes the Peter Pugger the most reliable, maintenance friendly pugmill available. The Peter Pugger mixing pugmill frees the operator during the mixing process, vacuum deairs the entire batch (patented design) and empties itself in the form of compacted logs-ready for throwing.

No vacuum screens or ports to clog or maintain!

- Eliminates Wedging
- Store Moist Clay Indefinitely
- Mix Wet & Dry Scrap
- Mix Clay From Powder/Water
- Recycle Without Slaking
- Blend Multiple Clay Bodies
- Easy to Mount Extrusion Dies
- Simple To Clean
- Compact, Efficient & Quiet
- Large Work Surface
- Auto Electric Safety Shutoff
- Adjust Moisture Content
- Variable Speed Control
- No Vacuum Screens or Ports to Plug, Clean, or Slow Down Cycle Times
- CE/CSA Certified
- Made in the USA

Mixing Pugmills

Batch Mixing

The Peter Pegger mixing pugmill comes equipped with full batch mixing and blending capabilities which allows for thorough mixing and moisture adjustment prior to extruding.

Large Hopper

The over-sized hopper door allows for easy loading of any form of clay that has not been fired, i.e. large chunks of bone hard clay, scraps, dry powder, broken greenware, etc.

Patented Vacuum Dairing Process

Peter Pegger's Patented Vacuum Dairing design (U.S. Patent Numbers www.peterpegger.com/history/patents) is the most effective method for dairing clay to date. The entire batch can be thoroughly dairied while the clay is being mixed. Simply turn the vacuum switch to ON and watch the vacuum gauge rise. Once the vacuum gauge reaches the desired level, air-free clay is ready to extrude. This design eliminates the issues surrounding vacuum screens and pugmills that dair via the hopper door-- no clogged screens or hopper doors, no costly down time due to cleaning and no delayed cycle times. Peter Pegger's streamlined design does not require a large vacuum pump because the clay is continuously exposed to vacuum in the sealed mixing chamber. Vacuum is provided by a double-headed rocking piston diaphragm pump. These new technology pumps are the simplest and quietest vacuum sources available. They are maintenance free and long lasting.

Completely Sealed Mixing Pugmill

The vacuum dairing models are designed to leave moist clay in the mixing pugmill indefinitely. This is achieved by machining o-ring grooves into the mating surfaces of the castings. In turn, universal o-rings can be installed into the machined grooves to provide a superior sealing surface. This eliminates the need to disassemble the mixing pugmill to clean out dry clay. There is no need for wet rags in the door or wrapping the pugmill in plastic. Pugmills which are not sealed dry out quickly and require complete disassembly to eliminate hardened clay.

Patented Separation of Gear Drive System From Mixing Process

This ingenious design (U.S. Patent Numbers www.peterpegger.com/history/patents) is one of the reasons that makes Peter Pegger's mixing pugmill the best choice. A mixing pugmill is designed to rotate the auger in both mix and extrude directions. While rotating the auger in the mix direction, clay is being forced up against the rear wall of the mixing chamber. As a result, the need to protect important components such as seals, bearings and the gearbox must be addressed. Peter Pegger's vacuum dairing models have eliminated this issue by designing an integral vacuum/void chamber between the processing chamber and the gear drive system. Clay that inherently works its way along the shaft escapes harmlessly into the vacuum chamber avoiding damage to the gear drive. It can be easily gathered and reintroduced into the processing chamber. No other pugmill on the market addresses this issue.

Variable Speed Control

Variable speed control allows the operator to control the speed of the motor, thus the speed of mixing and extruding. This control is convenient for single potter situations where post processing of the clay is required while extruding the clay. It is especially useful when extruding through dies that have been mounted onto the end of the mixing pugmill.

Work Surface

The motor and gear drive are enclosed for protection and cleanliness. This creates a durable work surface for operator convenience while loading and unloading.

Stainless Steel

Auger, shaft and paddles are of stainless steel, along with aluminum alloy castings to ensure clay processing without iron contamination. Stainless Steel castings are available on select models to provide protection against corrosion from white clay bodies.

Safety

It is not necessary to continuously hand feed the Peter Pegger mixing pugmill as with standard pugmill designs. Load a full batch, close the lid and turn it on -- this eliminates exposure to moving paddles. The machine is designed to shut off automatically when the lid is opened.

Extruding Capability-Dies

The vacuum deairing models come equipped with tapped holes that are machined into the extrusion end (nozzle) of the mixing pugmill. This allows the operator the option of mounting extrusion dies directly to the end of the machine. Deaired clay can be extruded directly from the mixing pugmill via the extrusion die. The speed of the extrusion can be controlled using the variable speed control. (See Accessories)

Pug Cutting

The pug cutter is an attachment that provides a convenient means for cutting clay logs into preferred lengths. The pug cutter can easily be mounted to the bosses located on the bottom side of the pugmill nozzle. Measuring marks are engraved into the cutting tray for consistent length of cut. (See Accessories)

Cleaning

Since the vacuum deairing models are completely sealed, moist clay can be stored indefinitely without drying out. This eliminates the need to disassemble the mixing pugmill to clean out dry clay. When switching clay bodies, most Peter Pegger owners will extrude the remaining batch first clay body, leaving only residual clay in the machine. Next, load the second clay body into the mixing pugmill and follow the standard process to purge the first clay body from the machine. This also eliminates the need to disassemble the mixing pugmill to clean out clay. When slight cross contamination is undesirable (going from dark to a light body), the mixing pugmill is easily broken down into manageable pieces for convenient cleaning of the machine. Peter Pegger mixing pugmills that come equipped with wheels or on stands with wheels allow the machine to be relocated to a cleaning site.

High Quality, Heavy Duty Drive

The industrial-rated electric motor, and gear reduction transmission is the highest quality available. Overload protection is provided in the magnetic motor starter.

Adjustable Stand

This heavy duty stand has a shelf, and the height is adjustable. Wheels are included and can be installed on the motor end of the vacuum deairing mixing pugmill stand for easy transport. (See Accessories)

Deairing Mixing Pugmills



VPM-7 POWER WEDGER (ALUMINUM)

Maximum Batch Capacity	14 pounds
Pugger Rate	350 lbs. per hour
Mixing Rate	100lbs per hour
Dimensions	36"L x 14"W x 15"H
Crated Weight	133lbs. (ships UPS/FedEx Ground)
Hopper Door Size	4.5" x 4.5"
Pug Size	3" round
Electrical	1/2 HP 1ph, 6 amps @ 120V, 4 amps @ 240V
Vacuum Pump	1/3 HP (operates off main electrical)



VPM-7SS POWER WEDGER (STAINLESS STEEL)

Maximum Batch Capacity	14 pounds
Pugger Rate	350 lbs. per hour
Mixing Rate	100lbs per hour
Dimensions	36"L x 14"W x 15"H
Crated Weight	148lbs. (ships UPS/FedEx Ground)
Hopper Door Size	4.5" x 4.5"
Pug Size	3" round
Electrical	1/2 HP 1ph, 6 amps @ 120V, 4 amps @ 240V
Vacuum Pump	1/3 HP (operates off main electrical)



VPM-9 POWER WEDGER (ALUMINUM)

Maximum Batch Capacity	25 lbs.
Hopper Door Size	5 1/4" x 5 1/4"
Mixing Rate	150 lbs. per hour
Pugging Rate	500 lbs. per hour
Pug Size	3" diameter
Dimensions	42"L x 14"W x 15H"
Crated Weight	148 lbs. (Ships UPS/FedEx Ground)
Electrical	3/4 HP, 1ph, 8 amps @ 120V, 6 amps @ 240V
Vacuum Pump	1/2 HP (operates off main electrical)



VPM-9SS POWER WEDGER (STAINLESS STEEL)

Maximum Batch Capacity	25 lbs.
Hopper Door Size	5 1/4" x 5 1/4"
Mixing Rate	150 lbs. per hour
Pugging Rate	500 lbs. per hour
Pug Size	3" diameter
Dimensions	42"L x 14"W x 15H"
Crated Weight	241 lbs. (ships LTL Trucking)
Electrical	3/4 HP, 1ph, 8 amps @ 120V, 6 amps @ 240V
Vacuum Pump	1/2 HP (operates off main electrical)

Deairing Mixing Pugmills



VPM-20 POWER WEDGER (ALUMINUM)	
Maximum Batch Capacity	45 lbs.
Hopper Door Size	7" x 7"
Mixing Rate	180 lbs. per hour
Pugging Rate	600 lbs. per hour
Pug Size	3" diameter
Dimensions	45"L x 14"W x 20.5H"
Crated Weight	230 lbs. (Ships LTL Trucking)
Electrical	1HP, 1ph, 10.3 amps @ 120V, 8 amps @ 240V
Vacuum Pump	1/2 HP (operates off main electrical)



VPM-20SS POWER WEDGER (STAINLESS STEEL)	
Maximum Batch Capacity	45 lbs.
Hopper Door Size	7" x 7"
Mixing Rate	180 lbs. per hour
Pugging Rate	600 lbs. per hour
Pug Size	3" diameter
Dimensions	45"L x 14"W x 20.5H"
Crated Weight	285 lbs. (Ships LTL Trucking)
Electrical	1HP, 1ph, 10.3 amps @ 120V, 8 amps @ 240V
Vacuum Pump	1/2 HP (operates off main electrical)

Deairing Mixing Pugmills



VPM-30 POWER WEDGER (ALUMINUM)	
Maximum Batch Capacity	85 lbs.
Hopper Door Size	8" x 8"
Mixing Rate	240 lbs. per hour
Pugging Rate	800 lbs. per hour
Pug Size	3" diameter
Dimensions	47"L x 20"W x 43H"
Crated Weight	410 lbs. (Ships LTL Trucking)
Electrical	1.5 HP, 1ph, 16 amps @ 120V, 8 amps @ 240V
Vacuum Pump	1/2 HP (operates off main electrical)



VPM-30SS POWER WEDGER (STAINLESS STEEL)	
Maximum Batch Capacity	85 lbs.
Hopper Door Size	8" x 8"
Mixing Rate	240 lbs. per hour
Pugging Rate	800 lbs. per hour
Pug Size	3" diameter
Dimensions	47"L x 20"W x 43H"
Crated Weight	520 lbs. (Ships LTL Trucking)
Electrical	1.5 HP, 1ph, 16 amps @ 120V, 8 amps @ 240V
Vacuum Pump	1/2 HP (operates off main electrical)

Deairing Mixing Pugmills



VPM-60 POWER WEDGER (ALUMINUM)

Maximum Batch Capacity	140 pounds
Hopper Door Size	9" x 9"
Mixing Rate	500 lbs. per hour
Pugging Rate	1,500 lbs. per hour
Pug Size	3 1/2" diameter
Dimensions	54"L x 20"W x 36H"
Crated Weight	520 lbs. (Ships LTL Trucking)
Electrical	2 HP, 1ph, 18 amps @ 120V
Vacuum Pump	1/2 HP (operates off main electrical)



VPM-60SS POWER WEDGER (STAINLESS STEEL)

Maximum Batch Capacity	140 pounds
Hopper Door Size	9" x 9"
Mixing Rate	500 lbs. per hour
Pugging Rate	1,500 lbs. per hour
Pug Size	3 1/2" diameter
Dimensions	54"L x 20"W x 36H"
Crated Weight	610 lbs. (Ships LTL Trucking)
Electrical	2 HP, 1ph, 18 amps @ 120V
Vacuum Pump	1/2 HP (operates off main electrical)



VPM-100 PROWER WEDGER (ALUMINUM)

Maximum Batch Capacity	250 lbs.
Hopper Door Size	11" x 11"
Mixing Rate	900 lbs. per hour
Pugging Rate	2,000 lbs. per hour
Pug Size	4" diameter
Dimensions	31H" x 24"W x 60"L
Crated Weight	850 lbs. (ships LTL Trucking)
Electrical	4 HP, 1ph, 24 amps, 3ph, 17 amps @240V



VPM-100SS PROWER WEDGER (STAINLESS STEEL)

Maximum Batch Capacity	250 lbs.
Hopper Door Size	11" x 11"
Mixing Rate	900 lbs. per hour
Pugging Rate	2,000 lbs. per hour
Pug Size	4" diameter
Dimensions	31H" x 24"W x 60"L
Crated Weight	1245 lbs. (ships LTL Trucking)
Electrical	4 HP, 1ph, 24 amps, 3ph, 17 amps @240V

Non Deairing Mixing



PM-50 MIXER-PUGGER (ALUMINUM)

Maximum Batch Capacity	135 lbs.
Hopper Door Size	9" x 9"
Mixing Rate	900 lbs. per hour
Pugging Rate	1,500 lbs. per hour
Pug Size	3 1/2" diameter
Dimensions	30H" x 20"W x 46"L
Crated Weight	430 lbs. (ships LTL Trucking)
Electrical	2 HP, 1ph, 16 amps @ 240V



PM-100 MIXER-PUGGER (ALUMINUM)

Maximum Batch Capacity	250 lbs.
Hopper Door Size	11" x 11"
Mixing Rate	900 lbs. per hour
Pugging Rate	2,000 lbs. per hour
Pug Size	4" diameter
Dimensions	31H" x 24"W x 60"L
Crated Weight	720 lbs. (ships LTL Trucking)
Electrical	4 HP, 1ph, 24 amps, 3ph, 17 amps @240V

Extrusion Dies



#1 Handle



#2 Modified Handle



#3 Coil



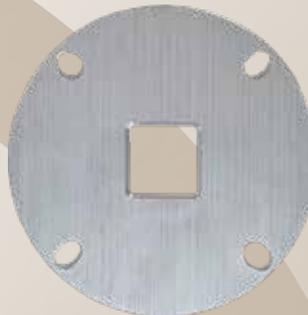
#4 Rectangle



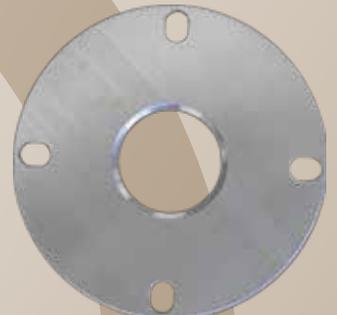
#5 Blank



#6 Slot



#7 1" Square



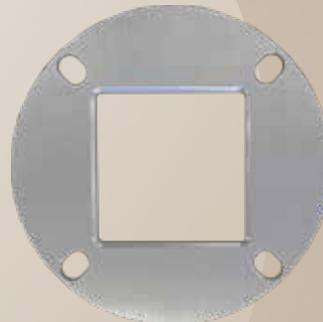
#8 1 1/2" Coil



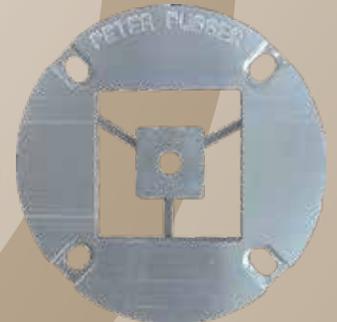
#9 Locking Edge



#10 Hollow Tube Kit
(Round)
2 1/2", 2", 1 1/2" - ID
1", 1 1/2", 2", 2 1/2" - OD



#11 2 1/8" Square



#12 Hollow Tube Kit
(Square)
1", 1 1/2", 2", 1" x 2" - ID
1 1/2", 2", 1 1/2" x 2 1/2" - OD



#13 Test Tile

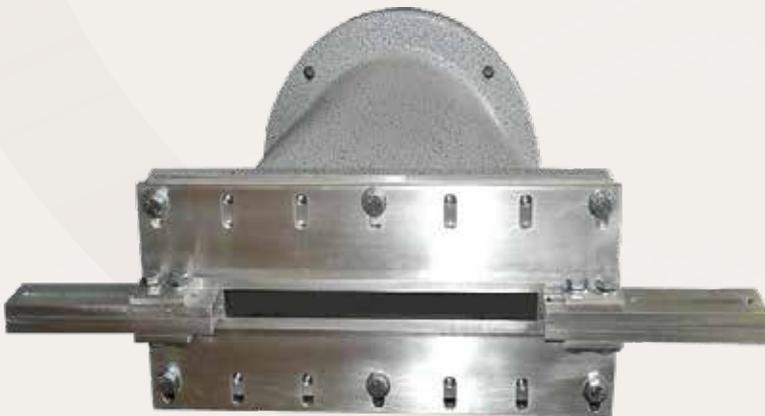
Accessories



Pug Cutter



Manual Tile Cutter



Nozzle & Adapter Plates



Adjustable Stand

Tile Extruding Vacuum Power Wedger

Based on the standard Deairing Mixing Pugmill, the Tile Extruding Model come equipped with the additional features to transform the Tile Extruding Vacuum Power Wedger into the most versatile tile making machine available:

Aggressive Stainless-Steel Auger:

The Tile Extruding Model's auguring system has been designed to accommodate the enormous backpressure generated as a result of extruding large amounts of clay through a small orifice (tile die/adapter). Additional flights have been added to the standard auger design to generate the needed force to extrude various field dimensions.

Variable Speed Control:

This allows the operator the ability to speed up or slow down the pugmill. This is especially useful when extruding through dies. Slowing down the speed prevents the clay from "deforming" when forced through a reduction area. In turn, perfect deaired configurations are easily extruded through the Tile Extruding Vacuum Power Wedger. There are additional advantages if you are a "single operator". The ability to slow the pugging allows for post processing of the extruded tile.

Upgraded Motor:

In addition to the massive gear reduction the gearbox provides, an upgraded motor has been designed into selected models to provide additional torque.

Tile Nozzle:

The Tile Extruding Model comes equipped with a standard nozzle for producing round pugs and a tile nozzle (see specific models for tile nozzle dimensions). Nozzles can be switched out by simply removing the four bolts that secures the nozzle to the cone.

Spool:

A spool (additional casing) has been added to accommodate the additional auger length needed for the Tile Extruding model.

Tile Nozzle Adjustable Adapter:

The tile nozzle adapter allows the operator to adjust the tile thickness and width by simply loosening and sliding the guide plates to the desired dimensions (see accessories).

Spider Assembly:

To eliminate the issue pertaining to clay "following the path of least resistance," a spider assembly has been provided to slow the center clay speed down to allow the outer edges time to maintain pace. The Spider Assembly comes with various size center spacers for varying conditions and clay bodies.

Optional:

Custom tile nozzles and extrusion dies can be provided. Cost is based on complexity and design.

Tile & Mold Making Equipment



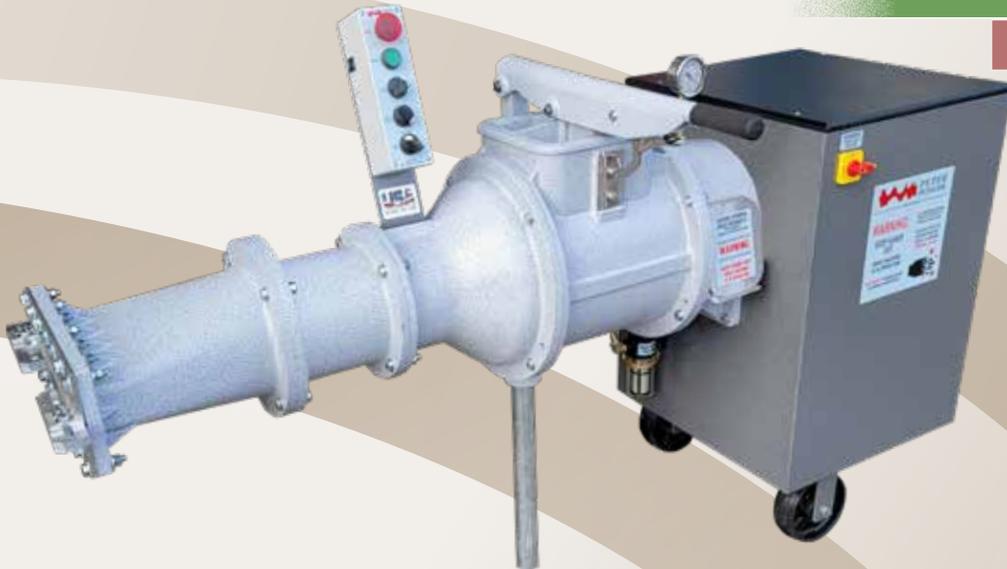
VPM-20 TE TILE EXTRUDING PUGMILL (ALUMINUM)

Maximum Batch Capacity	45 lbs.
Hopper Door Size	7" x 7"
Standard Mixing Rate	180 lbs. per hour
Standard Pugging Rate	600lbs. per hour
Standard Pug Size	Standard 3" diameter/ adjustable tile nozzle with adapter plates
Dimensions	20H" X 14"W x 48"L
Crated Weight	285 lbs. (Ships LTL Trucking)
Electrical	1 HP, 10.3 amps @ 120V, 8 amps @ 240V
Vacuum Pump	1/2 HP (operates off main electrical)



VPM-20SS TE TILE EXTRUDING PUGMILL (STAINLESS STEEL)

Maximum Batch Capacity	45 lbs.
Hopper Door Size	7" x 7"
Standard Mixing Rate	180 lbs. per hour
Standard Pugging Rate	600lbs. per hour
Standard Pug Size	Standard 3" diameter/ adjustable tile nozzle with adapter plates
Dimensions	20H" X 14"W x 48"L
Crated Weight	385 lbs. (Ships LTL Trucking)
Electrical	1 HP, 10.3 amps @ 120V, 8 amps @ 240V
Vacuum Pump	1/2 HP (operates off main electrical)



VPM-30 TE TILE EXTRUDING PUGMILL (ALUMINUM)

Maximum Batch Capacity	85 lbs.
Hopper Door Size	8" x 8"
Standard Mixing Rate	240 lbs. per hour
Standard Pugging Rate	800lbs. per hour
Standard Pug Size	Standard 3" diameter/ adjustable tile nozzle with adapter plates
Dimensions	33H" X 24"W x 56"L
Crated Weight	395 lbs (Ships LTL Trucking)
Electrical	2 HP, 1ph, 16 amps @240V
Vacuum Pump	1/2 HP (operates off main electrical)



VPM-30SS TE TILE EXTRUDING PUGMILL (STAINLESS STEEL)

Maximum Batch Capacity	85 lbs.
Hopper Door Size	8" x 8"
Standard Mixing Rate	240 lbs. per hour
Standard Pugging Rate	800lbs. per hour
Standard Pug Size	Standard 3" diameter/ adjustable tile nozzle with adapter plates
Dimensions	33H" X 24"W x 56"L
Crated Weight	500 lbs. (Ships LTL Trucking)
Electrical	2 HP, 1ph, 16 amps @240V
Vacuum Pump	1/2 HP (operates off main electrical)



VPM-60TE TILE EXTRUDING PUGMILL (ALUMINUM)

Maximum Batch Capacity	140 pounds
Hopper Door Size	9" x 9"
Standard Mixing Rate	500 lbs. per hour
Standard Pugging Rate	1,500 lbs. per hour
Standard Pug Size	Standard 3" diameter/adjustable tile nozzle with adapter plates
Dimensions	31H" x 24"W x 68"L
Crated Weight	550 lbs. (Ships LTL Trucking)
Electrical	3 HP, 1ph, 18 amps @ 120V
Vacuum Pump	1/2 HP (operates off main electrical)



VPM-60SSTE TILE EXTRUDING PUGMILL (STAINLESS STEEL)

Maximum Batch Capacity	140 pounds
Hopper Door Size	9" x 9"
Standard Mixing Rate	500 lbs. per hour
Standard Pugging Rate	1,500 lbs. per hour
Standard Pug Size	Standard 3" diameter/adjustable tile nozzle with adapter plates
Dimensions	31H" x 24"W x 68"L
Crated Weight	610 lbs. (Ships LTL Trucking)
Electrical	3 HP, 1ph, 18 amps @ 120V
Vacuum Pump	1/2 HP (operates off main electrical)



VPM-100 TE TILE EXTRUDING PUGMILL (ALUMINUM)

Maximum Batch Capacity	250 lbs.
Hopper Door Size	11" x 11"
Mixing Rate	660 lbs. per hour
Pugging Rate	2,000 lbs. per hour
Pug Size	4" Round
Dimensions	70"L x 24"W x 31"H
Crated Weight	960 lbs.
Electrical	5 HP, 3ph, 18 amps @ 240V
Vacuum Pump	1ea - 1HP, 1ea - 1/2HP (operates off main electrical)



VPM-100 TE TILE EXTRUDING PUGMILL (STAINLESS STEEL)

Maximum Batch Capacity	250 lbs.
Hopper Door Size	11" x 11"
Mixing Rate	660 lbs. per hour
Pugging Rate	2,000 lbs. per hour
Pug Size	4" Round
Dimensions	70"L x 24"W x 31"H
Crated Weight	1320 lbs.
Electrical	5 HP, 3ph, 18 amps @ 240V
Vacuum Pump	1ea - 1HP, 1ea - 1/2HP (operates off main electrical)

Tile & Mold Making Equipment



Peter Pugger offers the most versatile tile press available. This low pressure system provides the operator the ability to press a wide range of field tile, relief molding, and architectural pieces as well as pottery. With state-of-the-art controls and valving, the studio press is designed with efficiency and simplicity in mind. In turn, the operator can easily access the hydraulic pressure, as well as the top and bottom air purge for “on-the-fly” adjustments. Quick disconnect air connectors allow quick and easy die frame change-outs. Safe and trouble-free controls allow the operator to produce consistent product quickly and effectively.



30 TON STUDIO PRESS

Work Area	18" x 28" (options)
Travel / Daylight	Up to 24"
Extrusion Size	Standard Adjustable Tile Nozzle with adapter plates
Dimensions	76"H x 29"W x 24"L
Crated Weight	2,100 lbs. (Ships LTL Trucking)
Hydraulics / Electrical	Dependable Low Pressure System - amps at 240V
Safety	Laser curtain, enclosures, emergency stop and dual hand control demand
Stroke	Up to 24" (options)
Controls	Semi-Automatic
Hydraulic Force	60,000 lbs.
Air Purge - Foot Controls	Top and Bottom Capability

****120V, 3-phase, 50Hz and other motors are available on special orders.**

VPM-60MCE “Ultimate Pugmill”

MIX+DEAIR+HEAT+EXTRUDE+CUT

Heated Deairing Mixing

FEATURES:

Based on the standard VPM-60, the VPM-60MCE has incorporated the additional features to transform the VPM-60MCE into the most versatile epoxy, carbon & polymer based recycling machine available:

Batch Mixing: Full batch mixing and blending capability allows for thorough mixing and temperature adjustment before extruding.

Variable Speed Control: This allows the operator the ability to speed up or slow down the VPM-60MCE. This is especially useful when post processing is taking place. Because of the back pressure generated by a large amount of material being forced through a small orifice, the speed control allows the operator to slow the pugging as required. In turn, perfect deaired material easily extruded through the VPM-60MCE.

On Wheels: The VPM-60MCE comes with 8" diameter wheels and front casters. It is easily transported for cleaning and storage.

High Quality, Heavy Duty Drive: The industrial rated electric motor, close coupled to a gear reduction transmission, is the highest quality gear drive system available. Overload protection is provided in the magnetic motor starter.

Large Hopper: The 10"x10" hopper door allows for easy loading of large shavings, scrap, and trimmings. Hopper door comes equipped with o-ring seal to allow for vacuum deairing of material.

Pugmill Output: Switch to PUG after a batch is completely mixed, and the VPM-60MCE unloads itself in the form of 3 1/2" diameter logs.

Work Surface: The motor, gear drive and vacuum pump are enclosed for protection and cleanliness. This creates a durable work surface for operator convenience while loading and unloading.

Vacuum Deaired: The entire batch can be thoroughly deaired by starting the vacuum pump when the load is being mixed. Air is removed during the last stage of mixing, leaving an air-free, high quality product when extruded.

Temperature Controlled Chambers: Material can be stored indefinitely inside the machine. The barrel and nozzle chambers are temperature controlled to maintain warm material. The temperature controls for the nozzle and barrel chambers are factory set to the specific material being recycled to provide consistent results. Minimum temperature settings have been incorporated into the controls to provide protection against cold batch starts. In turn, the machine will begin reclaiming only when the temperature has reached the minimum temperature requirement.

Real Time Readout: The VPM-60MCE comes equipped with an amperage gauge which provides real-time readout of mixing activity. As the material is being mixed, the amperage gauge will provide the amps being pulled based on the motor demand. Once the gauge reaches the desired amp level, the material is ready for the deairing and extruding process.





Auto Cutting System (optional): The auto cutting system mounts directly to the spool section on the VPM-60MCE. It comes equipped with a start, stop and variable speed control for independent control of the auto cutting system speed, hence the cutting length of the material. The auto cutting system can be supplied on the 2"x10" nozzle and 3.5" diameter nozzle.

Hopper Hood (optional): A large hopper hood can be supplied to continuously feed and extrude material through the VPM-60MCE. The large hopper hood and standard large hopper are interchangeable on the VPM-60MCE.

VPM-60MCE HEATED DEAIRING MIXING PUGMILL	
Maximum Batch Capacity	85 - 100 lbs. (Depends on material)
Hopper Door Size	9" x 9"
Standard Mixing Rate	500 lbs. per hour
Standard Pugging Rate	1,500 lbs. per hour
Heating System	Dual Temp Control-Barrel/Nozzle
Dimensions	31"H x 24"W x 68"L
Crated Weight	640 lbs. (ships LTL Trucking)
Electrical	5 HP, 13ph, 24 amps @ 208V - 240V, 30A Plug
Vacuum Pump	1/2 HP (operates off main electrical)

Clam Shell Raku

Raku Kiln



Introducing Peter Puggger's new "Clam Shell" raku kiln. Utilizing years of history and a plethora of design improvements, this truly mobile raku kiln is designed for efficient, easy, one person operation. No need to worry about lifting a heavy chamber over red-hot kiln shelves or damaging product as a result. Simply split the kiln in two, allowing quick access to the kiln shelves. The fully insulated fiber walls and a soft brick floor allows the kiln to heat and cool rapidly, eliminating the need to preheat. Roll the kiln to a safe location, complete a firing cycle within 30-45 minutes and roll it back into storage. It's that simple!

QUICK CYCLE TIMES-NO PREHEAT REQUIRED

AUTO SAFETY SHUT-OFF WITH PILOT LIGHT

EASY ACCESSIBILITY TO THE WORK

CLEAR STANDARD MAN DOOR

SMALL, PORTABLE, EFFICIENT

ONE PERSON OPERATION

ECONOMICAL

USA MADE



FEATURES:

Constructed from high temperature fiber in a laser cut and formed metal frame. The sides fold down to offer unparalleled access to the hot ware. One person can easily fire this kiln, load and unload it without assistance. Insulating firebrick in a welded steel frame form the base of the kiln. Because of the fiber walls and soft brick base, the kiln heats and cools rapidly (eliminates the need to preheat). An entire heating cycle takes approximately 30-45 minutes using a propane tank and burner. The folding sides are made of sheet metal and angle iron. The sides hinge from the base and are lined with 1"inch thick ceramic fiber. Two vent holes on top of the kiln can be covered to allow control of the firing. Large "peep" holes on two sides give easy visibility into the kiln to inspect the cones and for thermocouple placement. The kiln is fired with a 75,000 BTU venturi burner in a fixed cradle. Modular construction allows easy storage or transportation. With the added casters the kiln can be moved in and out storage. The optional thermocouple safety shut-off system and pilot light provide a safe and reliable gas supply system.

CLAM SHELL RAKU KILN	
Main Base Construction	Laser Cut Steel Frame Base w/2,300°F Soft Brick & Wheels
Upper Shell Construction	Laser Cut Steel Frame w/High Temp Fiber Lining
Burner System	75,000 BTU Burner MR-750
Kiln Furniture	One 16" x 16" x 5/8" Shelf, Three 4" Posts
Gas Supply System	High Pressure Regulator, 12'ft. Hose & Gas Valve
Options	10ga Propane Tank, BASO Valve w/Thermocouple Safety Shut-off System, Digital Pyrometer w/8" Thermocouple, additional kiln furniture.

Ball Mills



Single Ball Mill



Double Ball Mill

Innovative design features, including variable speed control, inverter controlled drive for high electrical efficiency, drop-in slots for quick roller bar change-out, and easily acceptable roller shaft bands make Peter Pugger Ball Mills the first choice for small-scale to large-production milling.



Variable Speed



Drop in Roller Bar

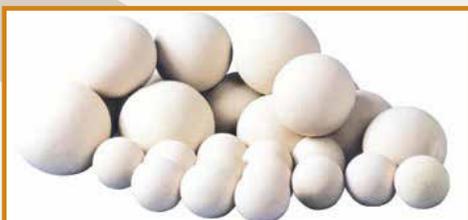


Shaft Band Change Out

SINGLE BALL MILL		DOUBLE BALL MILL	
Jar Capacity	3" Minimum Diameter up to 18" Maximum Diameter	3" Minimum Diameter up to 18" Maximum Diameter	3" Minimum Diameter up to 18" Maximum Diameter
Dimensions	9" x 9"	15"H x 17"W x 36"L	
Crated Weight	62 lbs. (Ships UPS/Fed Ex Ground)	80 lbs. (Ships UPS/Fed Ex Ground)	
Electrical	1/4HP, 1ph, 4 amps 120V, 2 amps @240V	1/3 HP, 1ph, 6 amps 120V, 3 amps @ 240V	
**3-phase, 50Hz and other motors are available on special orders			

PORCELAIN BALL MILL JARS: MULTIPLE SIZES AVAILABLE

These deluxe ball mill jars are made of high quality porcelain and are designed to be used in conjunction with the Peter Pugger Ball Mill. The deluxe jars have a large mouth and thicker walls than standard jars. The capacity stated is the liquid capacity of the jar including the recommended amount of alumina grinding media. The deluxe ball mill jars come with an end cap and clamp.



GRINDING BALLS: 1/2", 3/4", 1", 1 1/4" DIA. BALLS AVAILABLE

These white alumina grinding balls are non-contaminating and assure thorough mixing and grinding. Typically a ball mill is filled to 55% with grinding balls.

Power Extruding Equipment

Extruding has never been easier! Peter Pugger introduces the latest in extruding technology. With new deairing capability, Peter Pugger Power Extruders eliminate the issues that are inherent with traditional air assisted and manual wall extruders. Peter Pugger Power Extruders are designed for high production extruding. The controls allow the operator to load material directly into the extruder, close the door, deair and extrude final dimension product directly from the extrusion die. Rapid retract has been incorporated into the design to minimize cycle times. With hands free control, sealing extruding chamber and plenty of force to extrude even the toughest shapes (large or small), Peter Pugger Power Extruders are the solution to those challenging projects.

Features

High Quality, Heavy Duty Hydraulics

Industrial rated electric motor, close coupled to a variable pressure hydraulic system is the highest quality available. A pressure switch and bypass valving on the hydraulic system along with overload protection via the magnetic motor started ensures redundant safety during operation.

Sealed Chamber

Material can be stored indefinitely since all openings are sealed.

Extrude Output

Switch to EXTRUDE after a batch is loaded to begin extruding material using hand or foot operated controls.

Stainless Steel Construction

Power Extruder's main chamber, hydraulic push rod plate and nozzle (extrusion plate) are made of stainless steel to ensure a non-corrosive environment.

Vacuum Deaired

Entire batch can be thoroughly deaired by starting the vacuum pump once the batch has been loaded: Air is removed from around the material leaving an air-free quality product.

Variable Speed

Variable speed allows the operator to control the speed of the motor, thus the speed of the extrusion. Because of the back pressure generated by a large amount of material being forced through a small orifice, controlling the speed allows the operator to slow the extruding as required. In turn, perfect configurations are easily extruded through the Power Extruder. The ability to slow the speed down to allow for post processing of product is convenient for single person operation.

Hand and Foot Operation

The Power Extruder can be operated using hand or foot pedal controls (foot control optional).

Rapid Retract

Once the complete batch of material has been extruded, switch to "Rapid Retract" to quickly bring the cylinder head back into position for reloading.

Safety

The Power Extruder is interlocked for safe loading and maintenance. Load a full batch, close the lid and turn it on-this eliminates exposure to moving components. The machine is designed to shut off when the hopper lid is opened.

Extruding

The Power Extruder comes equipped with a machined o-ring groove and bolt holes on the extrusion exit flange to allow for a wide range of extrusion dies and attachments. Deaired clay can be extruded directly through the extrusion die. The speed of the extrusion can be controlled using the variable speed control.

Vacuum

Vacuum is provided by a double-headed rocking piston diaphragm pump. These new technology pumps are the simplest and quietest designs available. they are maintenance free and long lasting.

Cleaning

With the removal of the extrusion die bolts, the entire extruding chamber can be accessed so it can be conveniently cleaned out. Cleaning is necessary only to avoid cross contamination. Since the machines are completely sealed, material can be stored indefinitely without drying out.

Auto Cutting System

The optional auto cutting system mounts directly to the spool section on the Power Extruder. It comes equipped with a start, stop and variable speed control for independent control of the auto cutting system speed, hence the cutting length of the material. The auto cutting system can be supplied in several configurations.

Temperature Controlled Chamber

An optional temperature controller can be supplied to control and maintain the temperature of the material. The temperature controls can be adjusted as needed to provide consisten results. Minimum temperature settings have been incorporated into the controls to provide protection against cold batch starts.

Stores Moist Clay Indefinitely

Mounts Horizontally or Vertically

Eliminated Air Between “Chunks” of Material

Easy Mount Extrusion Dies

Intellectual (Rapid) Retract & Extruding Capability

Patented Vacuum Design

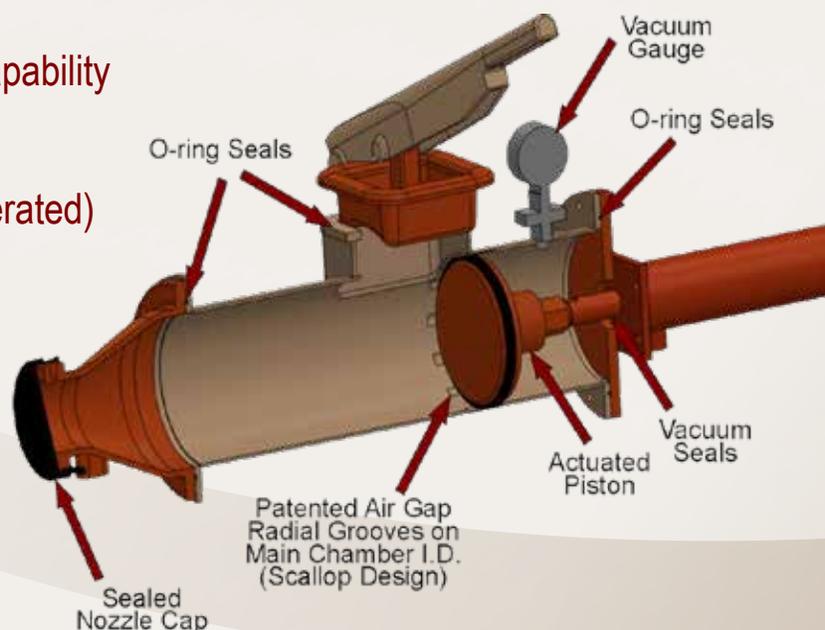
Variable Speed Control (Hand or Foot Operated)

Sealed Chamber eliminates need to clean out after every use due to dried out clay

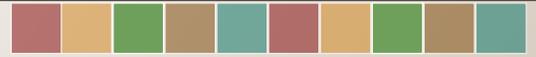
Small, Efficient & Quick

Auto Safety Shut-Off

USA Made



VPE-8SS VACUUM HYDRAULIC POWER EXTRUDER (STUDIO MODEL)



(Horizontal Configuration with power pak)



(Vertical Configuration with optional stand & foot pedal)

VPE-8SS STAINLESS STEEL VACUUM HYDRAULIC POWER EXTRUDER

Maximum Batch Capacity	25lbs. (Options are available for larger capacities)
Hopper Door Size	5 1/4" x 5 1/4"
Max Hydraulic PSI	3,000
Overall VPE-8SS Dims	12"H x 15"W x 48"L
Hydraulic Power Pak Dims	12"H x 15"W x 24"L
Vacuum Pump	1/3Hp, 3.8 amps at 120V
Motor	1/2Hp, 1 Ph, 3 amps @ 120V, 1.8 amps @ 240V (3Ph and 50Hz available)
Options	Adjustable stand, Extrusion Dies, Pug Cutter, Adjustable Shelving, Custom Adapters



- Ceramics
- Refractories
- Cosmetics
- Automotive
- Additive Manufacturing
- Aerospace
- Medical/Dental
- Athletics
- Battery Material



PRODUCTION POWER EXTRUDER

Maximum Batch Capacity	Multiple Options
Hopper Door Size	7" x 11"
Extrusion Size	Standard Adjustable Tile Nozzle with adapter plates
Vacuum Pump	Optional
Pug Size	3" diameter
Dimensions	53"H x 16"W x 60"L
Crated Weight	300 lbs. (Ships LTL Trucking)
Hydraulics/Electrical	Low Pressure - 8 amps @ 120V / 6 amps @ 240V

High Compression Deairing Mixing Pugmills

Peter Pegger has developed a high compression pugmill line capable of filling/loading 3D canisters (tubes) with truly deaired material. The efficiency of filling tubes using air-free material, produces higher yield, saves time/energy and results in a higher quality product. Our patented deairing process (see Mixing Pugmill description) eliminates downtime associated with clogged vacuum chambers, vacuum screens and plumbing due to the enormous amount of back pressure generated while filling 3D canisters.

The High Compression Deairing Mixing Pugmill utilizes all the latest advancements in mixing, deairing and extruding technology. The development of a high compression zone and 3D adapter for mounting canisters or hoses lands the High Compression Deairing Mixing Pugmill in a class of its own.

Features

Aggressive Stainless-Steel Auger:

The High Compression Model's auguring system has been designed with additional augering flights to accommodate the enormous backpressure generated when extruding large amounts of clay into a customer supplied canister (tube) or hose.

Variable Speed Control:

This allows the operator the ability to speed up or slow down the pugmill. This is especially useful when extruding into canisters (tubes) or through hose. Slowing down the speed allows the material time to realign in preparation for extruding. There are additional advantages if you are a "single operator". The ability to control the speed of the machine via the hertz, allows for post processing of loaded canisters or the conjoining of the machine's Variable Frequency Drive to the 3D printer itself.

3D Canister (Tube) and Hose Adapters:

The High Compression Model's exit flange is designed to accept a 3D canister tube or hose adapter (Optional) for easy connection of canisters (tubes) or hoses. Because there are a wide variety of 3D printers available on the market, the 3D Canister (Tube) and Hose Adapter is ordered separately.

Spool:

A tight tolerance spool (additional casing or fabricated part) has been designed to accommodate the additional auger length.

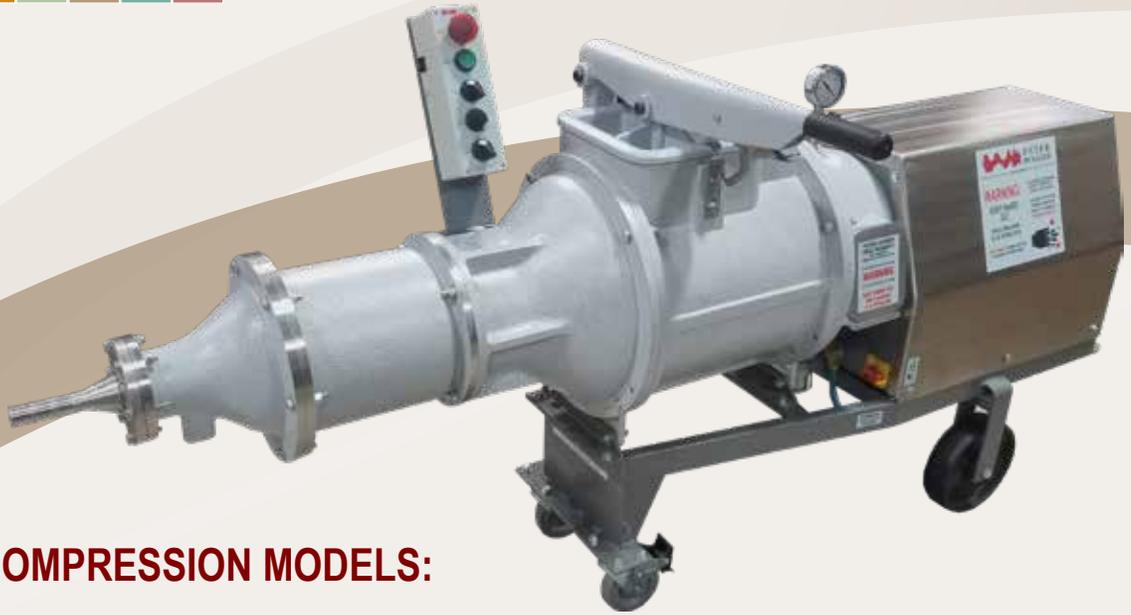
Spider Assembly:

A spider assembly has been incorporated into the design of the High Compression Deairing Mixing Pugmills to support the extended auger.

Optional:

Canister (tube) and hose adapters can be provided.

High Compression Dairing Mixing Pugmill



HIGH COMPRESSION MODELS:

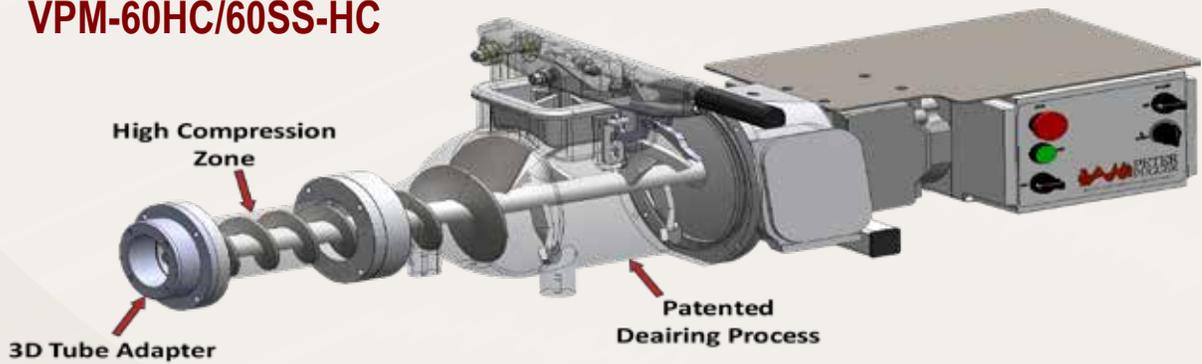
VPM-7HC/7SS-HC

VPM9HC/9SS-HC

VPM-20HC/20SS-HC

VPM-30HC/30SS-HC

VPM-60HC/60SS-HC



About Peter Pegger...

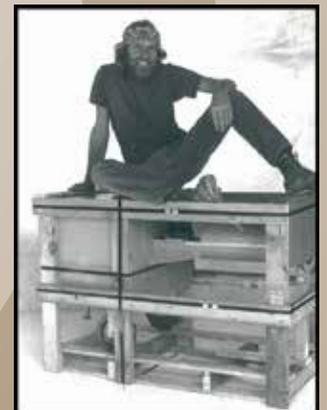
The first Peter Pegger was born in 1973 in sunny San Luis Obispo, California. It was a collaboration of a then little known architect/potter named Gordon Motta and an even lesser known engineer named Randy Wood. These two researched, sought out, analyzed and visited every existing pugmill they could find - from studio models to industrial giants.

After many long nights of welding, cutting, banging, bending, consulting, and a little swearing, a very strange pugmill emerged, made mostly of recycled parts from abandoned garlic factory processing equipment.

This long-nosed monstrosity was aptly named "Peter Pegger" by a friend with an active imagination. At that point no one imagined Peter Pegger would ever begin manufacturing. "If I had it to do over, I'm not sure I'd call it Peter Pegger", says Randy, "but it sure is a name people don't forget."

Gordon eventually moved back to the island of Hawaii where he grew up and became a now famous potter, leaving Randy the task of parenting "Peter." During the late 70s, while having made over a hundred long-nose peggars, Randy overheard a friend complaining that his pugmill wouldn't mix and his mixer wouldn't pug! Randy put his thinking bandana back on and realized digging clay out of a mixer and stuffing it back into a pugmill was a big waste of creative time and energy. By 1980, after several prototypes and much experimentation, Peter Pegger Manufacturing had its first patent and was well on its way to producing the first and ONLY pugger-mixer on the market. Sales started slow, but new owners were delighted with the ease of mixing and recycling, and word soon spread. As the pugger-mixers started showing their worth, more potters started asking about vacuum deairing. Was it not enough for a clay mixer to unload itself through a pugmill? Not for everyone. So Randy went back to work trying to add vacuum. This solution proved elusive. None of the conventional vacuum methods worked when mixing in a pugmill. Over the course of twelve years and after dozens of prototypes, Randy finally hit upon the exact combination that would work well, last a long time with low maintenance, and be perfectly safe and easy to operate -The Power Wedger was born.

Over 50 years later, and tens of thousands of Peter Peggars worldwide, what started out as a lurk has turned into a World Class organization producing various sizes of quality custom-crafted machines built for the long-term. Please contact us if you desire more information or wish to comment on our products.



Rugged, Custom Crafted Machines Built For The Serious Ceramicist



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