

MIXING EQUIPMENT

STANDARD BALL MILL JARS

Made of high-fired vitreous china. Designed especially for easy loading and cleaning and fast additions. Come complete with Buna lid and spring clamp.

PRODUCT	DESCRIPTION	OVERALL DIMENSIONS			VOLUME GALS. EMPTY	GRINDING MEDIA CHARGE (LBS.)	RECOMMENDED OPERATING CAPACITY				SHIP. WT. JAR ONLY (LBS.)	PRICE
		DIAMETER	HEIGHT	MOUTH			LBS.	GRAMS	GAL.	ML		
TM-323	1/4 GAL.	5 3/4"	6 1/2"	4"	0.5	4	1.5	680	0.30	1135	6	
TM-328	1/2 GAL.	6 7/8"	7 1/2"	4"	0.8	7	2.4	1100	0.48	1820	10	
TM-329	1 GAL.	8 5/8"	10 1/4"	4"	1.9	15	5.6	2500	1.10	4200	15	
TM-330	2 GAL.	11 1/4"	13 1/2"	4"	4.4	35	13.2	6000	2.6	9800	27	

DELUXE BALL MILL JARS

These Ball Mill Jars are made of high quality porcelain and are designed to be used on any standard ball mill roller. Deluxe jars have larger 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.

TM-352	2 Quart	7" dia.	8 1/2" High	Ship. wt. 10 lbs.
TM-353	5 Quart	8 1/2" dia.	11" High	Ship. wt. 18 lbs.
TM-354	3 Gallon	11 1/2" dia.	14 1/2" High	Ship. wt. 32 lbs.



NL-449 VAN HO DOUBLE BALL JAR MILL

Ship.wt. 106 lbs.

With Van Ho quality, this double ball jar mill features rubber collared, steel rollers for smooth, quiet and dependable performance. Powered by a 1/4 hp, 110 volt motor, the mill measures 29" x 14" x 15" and weighs approximately 106 lbs. (220 volt motor available by special order.) Jars not included.



GRINDING BALLS

These high quality white alumina grinding balls are non-contaminated and assure thorough mixing and grinding.

		Approx. Balls			
		Per #	1 lb.	5 lbs.	10 lbs.
TM-309	1/2"	100			
TM-310	3/4"	35			
TM-311	1"	16			
TM-31114	1 1/4"	8			

Prices are per pound. Typically jar is filled 55% with grinding balls.

JIFFY MIXERS

These all-purpose mixing blades attach to a power drill to mix quantities of liquid up to 5 gallons. They save time when mixing slips, plaster and glaze. The unique design provides for thorough mixing without getting air bubbles into the liquid. Constructed of corrosion-proof stainless steel.

PRODUCT	SIZE	DRILL	SHAFT	TOP	BOTTOM	HEAD DEPTH	PRICE	SHIP. WT.
TM-371	PINT	1/4"	10 1/4"	1 1/4"	1 1/4"	1 3/8"		1/2 lb.
TM-391	1-2 GAL.	1/4"	14 3/4"	2 5/8"	2 5/8"	2 3/8"		1 lb.
TM-320	1-2 GAL.	1/4"	30"	2 5/8"	2 5/8"	2 3/8"		2 lbs.
TM-381	2-5 GAL.	3/8"	20 1/2"	3 1/4"	3 1/4"	3 3/4"		3 lbs.
TM-321	5 GAL.	1/2"	20 1/2"	4 5/8"	5 1/8"	5"		3 lbs.
TM-322	10-50 G	1/2"	40"	4 5/8"	5 1/8"	5"		5 lbs.



SUPERSAFE® MULTI-PURPOSE GLAZE MIXER

Compatible with most home power drills, this remarkable mixer received its U.S. Patent in 1998 because of a design that uniquely combines mixing efficiency and safety. The SuperSafe® mixer quickly and thoroughly mixes glazes, paints, and many other liquid materials, while being far safer to use than old-fashioned, steel-bladed mixers.

Invented by eminent ceramic artist and author Don Frith, the SuperSafe® mixing disc is molded from reinforced nylon for long-term performance and durability. Finally, here is a mixer that won't tear up you or your mixing pails and buckets. Ideal for studios, schools, and anyone concerned with safe and thorough mixing, we're so sure you will like your SuperSafe® mixer that we guarantee it.

PRODUCT	SIZE	DISC DIAMETER	STAINLESS SHAFT*	PRICE	SHIP. WT.
TM-400	1-2 GAL	2.50"	16.75"		1 lb.
TM-401	3-4 GAL	3.25"	25.50"		2 lbs.

* Shafts are interchangeable on both size discs.



HANSON MIXERS

PLUNGE MIXER

The Hanson Plunge Mixer is the top of the line heavy-duty mixer ideal for mixing glazes, plaster, fiberglass, resins, plastic compounds, mortar, cements, foundry core mixes, molding sands and asphalt sealers.

Material: Zinc-aluminum alloy, with heavier zinc content for durability and longer life. The head is cast, tumbled smooth with a no-burr finish for easy clean up. Sizes available to mix 1/2 pint up to 55 gallons.



Plunge Mixer

SWING-T MIXER

Glazes and many other materials come in a sealed metal or plastic 5-gallon container which can be time consuming to open; by entering the pouring spout with the Swing-T you can mix with action that you couldn't obtain without removing the top. The Swing-T opens to a 5" mixing diameter when centrifugal force is applied. This mixer follows the tradition of the other Hanson Plunge Mixer line, having teeth on the bottom for added mixing action and the ability to loosen material from the bottom of mixes without harming the container.

Material: Aluminum head, 3/8" diameter plated steel shaft.



Swing-T Mixer

TML-5553 SWING-T BARREL MIXER

Mixes through the bunghole of a 55-gallon drum. When centrifugal force is applied the blades swing out to a diameter of 5 3/4" for maximum mixing capability. The mixing heads are stackable up to three units on one shaft for easy adjustment in the fluid level.



Barrel Mixer

PLUNGE 85 MUD MIXER

This heavy-duty mixer is known as "The Mudders Dream". The 85 has two unique design qualities that make it a one-of-a-kind mixer in its class. It has a detachable blade design for easy clean up. The blade cutting design and angles move materials quickly and allows the mixer to reach into the corners of your mixing containers easily for less product waste. The 85 was designed to mix paints, drywall mud, heavy paste and acoustic pre-mix, quickly and lump free. For 5-gallon containers. Good for plaster too.

Material: Aluminum alloy with hex steel shaft. Smooth tumbled finish.



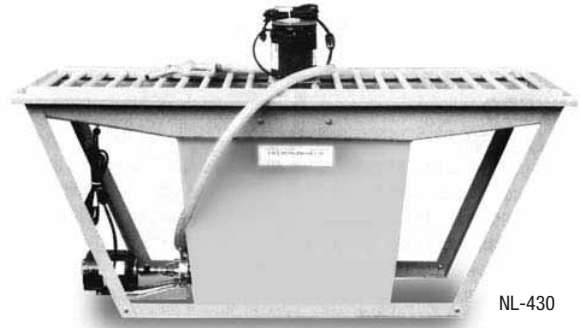
Plunge 85 Mud Mixer

MIXER	DESCRIPTION	HEAD DIA.	SHAFT DIA.	LENGTH	CONTAINER SIZE / USE	PRICE
TML-001	Plunge Mixer	1 1/4"	1/4"	8 7/8"	Pint / Quart	
TML-001A	Plunge Mixer	1 1/8"	1/4"	15"	1 Gallon (plastic bottle)	
TML-002	Plunge Mixer	2 1/4"	5/16"	13 1/4"	Up to 2 Gallons	
TML-003	Plunge Mixer	3 3/16"	5/16"	17"	5 Gallons	
TML-003A	Plunge Mixer	3 3/16"	1/2"	22"	5 Gallons	
TML-003LS	Plunge Mixer	3 3/16"	3/8"	22"	5 Gallons	
TML-006A	Plunge Mixer	5 3/4"	1/2"	23 1/2"	5-55 Gallons	
TML-006B	Plunge Mixer	5 3/4"	Head only	no shaft	5-55 Gallons	
TML-006C	Plunge Mixer	5 3/4"	1/2"	23 1/2"	5-55 Gallons	
TML-006D	Plunge Mixer	5 3/4"	1/2"	40"	55 Gallons	Cast Iron for heavy duty use
TML-T550	Swing-T Barrel Mixer	5 3/4"	Head only	no shaft	55 Gallons (thru bung)	
TML-T553	Swing-T Barrel Mixer	5 3/4" (3 Heads)	1/2"	36"	55 Gallons (thru bung)	
TML-T5	Swing-T Mixer	5"	3/8"	23"	5 Gallons (thru spout)	
TML-085	Mud Mixer	7 1/2"	3/8" hex.	24"	5 Gallons	
TML-085LS	Mud Mixer	7 1/2"	3/8" hex.	30"	5 Gallons	

LILY POND MIXING EQUIPMENT

NL-429 SUPER PUDDLE Ship. wt. 100 lbs.

Now mix, pour and reclaim- all in one machine. Features include: all hardwood rack, 1/2 hp mixer, 70 gallon tank, 3 metal propellers, stainless steel mixing shaft, one piece molded fiberglass, pump strainer 'no lumps', flow regulated nozzle, tough 1" clear plastic hose. New type pump helps eliminate air bubbles. Completely waste free, use all scraps, 5 year limited warranty. 2' x 12'.



NL-430

NL-430 BIG PUDDLE Ship. wt. 100 lbs.

2' x 6' size model with the same features as the Super Puddle.

NL-433 MIXER RECLAIMER Ship. wt. 20 lbs.

This 6 gallon mixer reclaimer features: easy moving handle, grounded cord with switch, 1/3 hp motor with sealed bearing, 1" plastic faucet, stainless steel shaft, metal mixing blades, clear plastic lid, removable mixing unit, five year limited warranty.



NL-432

NL-432 LIL' PUMPER Ship. wt. 22 lbs.

Use for all types of slip. Features include: strong 1/3 hp pump motor, new flow control nozzle, 8 ft. heavy duty plastic hose, stainless steel shaft gently agitates, strainer, grounded off/on switch, long 8 ft. cord, removable lid, easy moving handle, all non-rusting parts, heavy duty slip container. Operates on 1 to 6 gallons slip.

NL-431 LIL' PUDDLE Ship. wt. 15 lbs.

It's easy to pour with the Lil Puddle with features including: heavy duty one-piece molded fiberglass, one-piece removable hardwood rack, plastic spigot, 5 gallon capacity, fits neatly on almost any table top, easy to clean, molds stay cleaner and last longer. Overall size 24" x 42".



NL-431

15, 30, 55 GALLON MIXER RECLAIMER

All fiberglass tank and lid. Strong heavy duty steel stand. Large 2" faucet. Grounded cord with switch. 1/2 HP sealed bearing motor. Stainless steel shaft. Metal mixing blades. Large top opening. Complete mixing instructions. Height to lid: 50". Width: 24". Overall height: 59". Gallon markings on outside of tank.

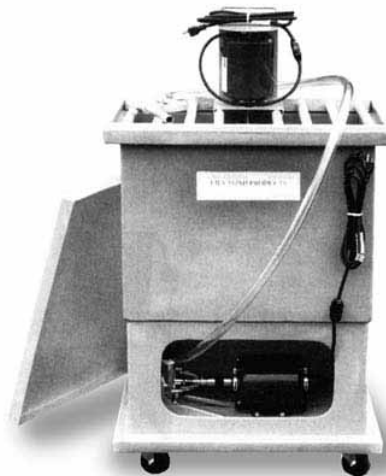
	Capacity	Price	Ship. Wt.
NL-435	15 Gallon		60 lbs.
NL-436	30 Gallon		70 lbs.
NL-437	55 Gallon		90 lbs.

NL-438 PUMP UNIT Ship. wt. 20 lbs.

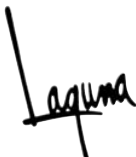
M100 Campbell pump. Pump base. Flex coupler. 1/3 HP, 1725 RPM, sealed bearing motor. Shipped assembled.

NL-439 MID PUMPER 33 GALLON HIGH-BOY WITH MIXER

24" x 28" size. Height 35". Strong 1/3 HP pump and motor. Flow control nozzle. 6' heavy duty plastic hose. Strainer (no lumps). Grounded on-off switch. Long 10" cord. 4 large casters for easy moving. Full lid. Thick, heavy duty container. Use for storage. Hardwood rack. Includes heavy duty mixer. Stainless steel mixing shaft. 3 metal propellers, not plastic. Pour, mix, reclaim. 5 year limited warranty. Ship. wt. 90 lbs.



NL-439



LEHMAN SLIP EQUIPMENT

Lehman offers a fine line of equipment to meet the needs of the studio operator (Studio Star Equipment) or the production manufacturer (Slip-O-Matic Equipment). Because space is limited, we are only able to include a small portion of the equipment available. Please write or call for more information.

MIXERS

NL-410 COM MIXER Ship. wt. 40 lbs.
Clamp on Mixer will fit onto almost any tank, and adjust to several different angle positions. The 33" shaft has two propeller mixing blades.

NL-413-SP4 SUSPENDED PUMP Ship. wt. 26 lbs.
Suspended pump includes stainless steel brackets for mounting in round or square container.



NL-413



NL-415-30B

NL-418-RM30 Ship. wt. 105 lbs.
Fiberglass 30 gallon tank mounted on heavy duty casters. The unique reverse action pump allows for both filling and draining molds with a flick of the switch.

NL-422-RD30 Ship. wt. 130 lbs.
The RD series offers the convenience of a casting table with the unique reverse action pump featured on the M30. Bridge type angle iron frame with heavy duty casters. 30 gallon fiberglass tank and birchwood removable dowels.

NL-422-RD630 Ship. wt. 160 lbs.
Same as RD30 only wider and longer. Casters optional.



NL-422-RD30

NL-418

NL-422-RD630

NL-414 MITY-MITE Ship. wt. 24 lbs.
Reclaim all scraps, trimmings and broken greenware. Stainless steel shaft with aluminum mixing blade. 10 gallon polyethylene tank has a lid covered opening.

NL-415-30B MIXER AND RECLAIMER Ship. wt. 65 lbs.
The fiberglass top cover is split at the middle to allow for easy loading of dry materials and seals air tight to the plastic 30 gallon tank. The shaft has two 4" propeller mixer blades.
Optional Steel Base Ship. wt. 81 lbs.

NL-415-55B Ship. wt. 80 lbs.
55 gallon capacity slip mixer / reclaimer with the same features as the 30B model.
Optional Steel Base Ship. wt. 107 lbs.

INDUSTRIAL SLIP EQUIPMENT

NL-408 CASTING TABLES
Fiberglass casting tables are available in a variety of sizes. These units are the same quality as shown on the casting tables with pumps. Most feature optional steel legs. Call for specifications and prices.

NL-416 INDUSTRIAL SLIP MIXER
100 gallon capacity fiberglass tank with hinged sealing cover designed to accept a standard 50 lb. bag with minimal dust problems. A 2" threaded outlet can be located for your convenience on the bottom or side. Also available in 100, 200 and 600 gallon capacity. Call for prices.

VAN HO PUG MILLS

Van Ho's pug mills have raised the standard for performance in small and mid-range pug mills. With multiple barrel sizes and motor powers, there is a Van Ho perfectly suited to every application. The pug mills and vacuum pumps sit on a common chassis equipped with heavy duty casters for mobility. All controls are within easy reach of the operator, who is shielded from moving parts.

Straight-forward design, heavy-duty construction and high quality parts make Van Ho pug mills suited for years of trouble-free pugging.

- Super heavy-duty construction
- Industrial quality
- Stainless steel augers and twin-paddle feed system
- Aluminum alloy barrels
- Accessible, durable screens
- 220 Volt
- Safety switch equipped
- Pug mill and vacuum pump mounted on platform with heavy duty casters
- Pugs 35% - 100% more de-aired clay per hour than other models with similar horse-power ratings
- Capacity and horsepower options to meet clay firmness and custom requirements
- Add your dies for custom shaped extrusions
- Great Prices



NL-321-200

NL-321-130

NL-321-160

VAN HO DE-AIRING PUG MILLS											
Model	HP	Phase	RPM	Nozzle Diameter Inches/mm	Auger Cylinder Inches/mm	Feed Opening (Inches)	Vacuum Pump (Liters)	Extruding Capacity Lbs./hr	Clay Firmness	Shipping Weight (pounds)	Price
NL321-130-1-1	1	1	24	4.1/105	5.3/130	6.2 x 6.5	150	880	Normal	530	
NL321-130-2-1	2	1	29	4.1/105	5.3/130	6.2 x 6.5	150	1,057	Firm	575	
NL321-130-2-3	2	3	29	4.1/105	5.3/130	6.2 x 6.5	150	1,057	Extra Firm	555	
NL321-160-3-1	3	1	24	4.7/120	6.5/160	8 x 9.5	150	2,643	Normal	980	
NL321-160-5-3	5	3	29	4.7/120	6.5/160	8 x 9.5	150	3,304	Extra Firm	920	
NL321-200-5-1	5	1	24	5.9/150	8/200	8.5 x 10	300	4,405	Normal	2325	
NL321-200-10-3	10	3	29	5.9/150	8/200	8.5 x 10	300	5,286	Extra Firm	2200	



Pug Mills

Van Ho



Van Ho has redefined “heavy duty” in small and mid-range pugmills.

- Heavy-duty, industrial construction
- Twin-paddle feed system increases productivity
- Pugs and de-airs 35-100% more clay per hour than other models with similar horsepower ratings
- 3-year warranty

SPECIFICATIONS

Power Plus Models	HP	Phase	RPM	Nozzle Diameter (Inches/mm)	Auger Cylinder (Inches/mm)	Feed Opening (Inches)	Vacuum Pump (Liters)	Extruding Capacity (Lbs./hr)	Clay Firmness	Shipping Weight (pounds)
NL321-130-1-1	1	1	24	4.1/105	5.3/130	6.2x6.5	150	880	Normal	530
NL321-130-2-1	2	1	29	4.1/105	5.3/130	6.2x6.5	150	1,057	Firm	575
NL321-130-2-3	2	3	29	4.1/105	5.3/130	6.2x6.5	150	1,057	Extra Firm	555
NL321-160-3-1	3	1	24	4.7/120	6.5/160	8 x9.5	150	2,643	Normal	980
NL321-160-5-3	5	3	29	4.7/120	6.5/160	8 x9.5	150	3,304	Extra Firm	920
NL321-200-5-1	5	1	24	5.9/150	8/200	8.5x10	300	4,405	Normal	2325
NL321-200-10-3	10	3	29	5.9/150	8/200	8.5x10	300	5,286	Extra Firm	2200

Double Ball Jar Mills

- Rubber-collared, steel rollers
- Smooth, quiet, dependable operation
- 29” rollers (32” jar capacity)
- 110-volt motor
- Overall dimensions: 38”W x 17”D x 18”H
- Shipping weight: 106 pounds



Jars and grinding balls available separately

VENCO PUG MILLS

Industrial quality pug mills built to withstand the most demanding studio pugging requirements. Each model is supplied with a high horsepower motor and a heavy-duty, inline gearbox.

Standard Features

- 220 volt
- Stainless steel mixing blades and auger
- Zinc primer and durable acrylic paint protect frame against corrosion
- Main shaft bearings are sealed, lubricated for life and O-ring protected
- High capacity, piston vacuum pump with air and water filter; single phase motor
- Cast aluminum barrel - split longitudinally for easy cleaning

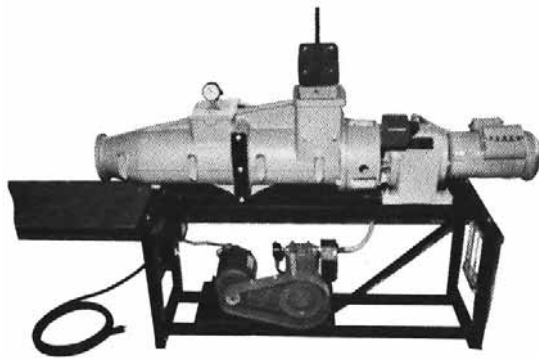
VENCO DE-AIRING AND NON-DE-AIRING PUG MILLS							
MODEL #	NL-330	NL-331	NL-332	NL-333	NL-370	NL-371	NL-372 ¹
De-airing	No	Yes	Yes	Yes	Yes	Yes	N/A
Main Motor ²	.5 hp .37 kw	.5 hp .37 kw	1 hp .75 kw	2 hp 1.5 kw	4 hp 3 phase	4 hp 3 phase	N/A
Vacuum Pump	None	.75 hp	.75 hp	.75 hp	.75 hp 3 phase	.75 hp 3 phase	.75 hp
Capacity ³	500	400	800	1,200	3,300	4,400	N/A
Nozzle Dia.	3"	3"	3.5"	4"	4.9" x 5.9"	4.9" x 5.9"	N/A
Ship. Wt.	111 lbs.	155 lbs.	199 lbs.	243 lbs.	980 lbs.	1,240 lbs.	55 lbs.
Price							

— Special Order —

¹ Vacuum pump only

² All motors are 220 volt, single phase except NL-370 and NL-371 which have 3 Phase motors. Model NL-371 offers an optional 7 hp 3 Phase motor for an additional \$650.

³ Capacity is measured in pounds per hour. The capacities provided in this table are provided by the manufacturer, and they may vary significantly depending on the firmness of the clay being extruded. Since some manufacturers base their estimates on the extrusion of a soft clay, and others on the extrusion of a firmer clay, the figures provided should be used only as a general guideline.



NL-332 (stand not included)

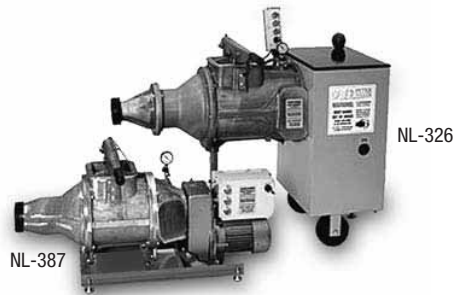
PETER PUGGER-MIXER

The Peter Pugger-Mixer is a self-unloading mixer with a non-de-airing pug mill output. Mixing and pugging are combined in a single machine so clay handling is greatly reduced. High quality drive components are combined with simplicity of design to make a long lasting, hard working, cost effective addition to your studio. All pugger-mixers have automatic shut-off when lid is opened.

Standard Equipment and Features

- Stainless steel shaft, auger and paddles with cast aluminum mixing and pugging chambers make the Pugger-Mixer well suited for handling iron-free clays.
- Rotational power is provided by an industrial rated AC electric motor, close coupled to a gear reduction transmission.
- A batch capacity of 100 lbs. of dry ingredients per load yields over 600 lbs. of pugged product per hour for the PM-100 model with a pugging capacity of 2,000 lbs. per hour. 50 lb. batch capacity yields 300 lbs. per hour with a pug rate of 1,200 lbs. per hour for the PM-50 model.
- Thorough cleaning is easy with the pugging chamber removed. Complete access to the auger blades allows the parts to be scraped or hosed.

NL-328 Model PM-50 2 hp Ship. wt. 400 lbs.
NL-329 Model PM-100 3 hp Ship. wt. 600 lbs.
 F.O.B. Ukiah, CA



POWER WEDGER • VACUUM PUGGER-MIXER

The Power Wedger combines the capability of batch mixing with the convenience of vacuum pugmill output.

- mixing moist clay from powder and water
- reclaiming scrap - wet or dry
- blending two or more different bodies
- adding materials (wet or dry) to an already moist body
- adjusting moisture of an already wet body
- OR just "wedge" a 25 lb. bag of clay - literally warm the clay by mixing it.
- 3" round pug size

Aluminum castings make up the clay chamber with stainless steel auger and blades. The auger is removable for ease of cleaning.

Catalog No.	NL-387	NL-326
Model	Model VPM-20	Model VPM-30
Batch Capacity	20 - 30 pounds	30 - 40 pounds
Dimensions	42"L x 13"W x 20"H	46"L x 20"W x 33"H
Crated Weight	230 pounds	410 pounds
Hopper Door Size	7" x 7"	8" x 8"
Pug Size	3" round	3" round
Motor	1 hp, 10.3 amps, 120 volts	1.5 hp, 16 amps, 120 volts or 8 amps, 240 volts
Vacuum pump	1/3 hp, 4 amps at 120 volts	1/3 hp, 4 amps at 120 volts
Price	F.O.B. Ukiah, CA	F.O.B. Ukiah, CA

Venco

With 30 years experience in designing and manufacturing pugmills and 9,000 sold worldwide, Venco pugmills are recognized for their value, reliability and efficient processing of clay. Venco includes a 3-year warranty.



SuperTwin

This all stainless, twin-auger pugmill is perfect for reclaiming, mixing and de-airing moist and dry clay and even broken greenware.

- Stainless steel everywhere clay touches pugmill
- 3.1" nozzle
- Optional de-airing module installs in seconds
- Twist-off nozzle and barrel are removed without tools for easy clean-up
- Optional (1) extrusion module (2) expansion chamber (3) roller ramp with cutting bow

SPECIFICATIONS						
SuperTwin	HP	De-Airing	Phase	Nozzle Dia.	Capacity per hr.	Ship wt.
NL-373	.5	Optional	1	3" to 5" ¹	880 to 1100 lbs. ²	209 lbs.

¹ 3" Standard; 5" with expansion chamber

² 880 de-aired

Mk2

The Mk2 Series is the traditional, rugged, single-auger, aluminum barrel veteran of the line.

- Stainless steel auger, shaft and blades with marine-grade aluminum
- Models available with 3", 3.5" and 4" nozzle diameters
- Suitable for blending, mixing and reworking moist clay
- De-airing standard (except 3" Standard)
- "Coarse" shredder screen for clay bodies containing coarse grog (optional)
- De-airing upgrade kit for 3" Standard model (optional)

SPECIFICATIONS						
Mk2 Models	HP	De-Airing	Phase	Nozzle Dia.	Capacity per hr.	Ship wt.
3" Standard NL-330	.5	No	1	3"	500 lbs.	111 lbs.
3" De-Airing NL-331	.5	Yes	1	3"	400 lbs.	155 lbs.
3" De-Airing NL-332	1	Yes	1	3.5"	800 lbs.	199 lbs.
4" De-Airing NL-333	2	Yes	1	4"	1200 lbs.	243 lbs.

Call for information about Venco's high-capacity, stainless steel industrial pugmills.



SOLDNER CLAY MIXERS



SPECIFICATIONS	STUDIO	PROFESSIONAL
Motor	1 1/2 hp, 120/208/240V, 1 or 3 phase	3 hp, 208/240V, 1 or 3 phase
Mixing capacity	150 lbs., wet	300 lbs., wet
Tub, concrete	23"D x 15"h, O.D.	30"W x 17"h, O.D.
Cutter bars	two, 1" stainless steel	three, 1" stainless steel
Frame, welded steel	28" x 34"D x 31"H	40" x 48"D x 31 1/2"H
Shaft & bearings	1 7/16" main bearing	1 7/16" main bearing
Safety	open lid shutoff, guards	open lid shutoff, guards
Warranty	5 years on tub, 1 elec.	5 years on tub, 1 elec.
Shipping weight	540 lbs. crated	850 lbs. crated
PRICE: F.O.B. KS		

