



# Choosing your Pugmill

土練機

NIDEC- SHIMPO has a variety of pugmills  
that can suit all of your needs.

How do you choose which one is right for you?

Stainless Steel | Aluminum | Twin Auger  
Single Auger | De-airing | Non De-airing

**Here are some main pugmill features that can help you in your decision making.**

**Stainless Steel vs Aluminum:**

- *Stainless steel is better long term, best for everyday porcelain users*
- *Aluminum is good for stoneware users*

**Twin Auger vs Single Auger:**

- *Twin augers increase wedging capability when pugging leather hard clay with softer clay (churning the clay together)*
- *Twin augers pull the clay through the chamber, alleviating the need to push the handle down to move clay through the hopper and into the barrel*
- *Single augers are meant to push clay through the barrel*

**De-airing vs Non De-airing:**

- *De-airing pugmills have a vacuum unit attached therefore removing 100% of the air in the clay*
- *Non de-airing pugmills can remove either some or most of the air in clay, depending on the size of the barrel versus the size of the nozzle where the extrusion occurs*

**Pugmill vs Pugmill/Mixer:**

- *Pugmills are for reclaiming clay when the clay is at a specific consistency*
- *Pugmill/mixers can mix wet, dry, and leather hard clay to reclaim clay into new clay*



NRA-04/04S



NVA-04S



NVS-07



*Safety Limit Switch*

*Breaker Switch to protect the Motor*

<b>Motor</b>	200W, 4P, Single Phase, 230V, 50Hz
<b>Extruding Capacity</b>	400 kg per hour
<b>Nozzle Diameter</b>	90 mm
<b>Hopper Size</b>	90 x 90 mm
<b>Dimensions</b>	665 (1025 including clay roller shelf) x 335 x 560 mm
<b>Weight</b>	NRA-04: 65 kg   NRA-04S: 75 kg

## NRA-04/04S

The **NRA-04/04S** pugmill features newly designed **TWIN AUGERS** and a forceful direct gear driven motor. It's high quality wedging and extruding capacity produces nearly air-free clay and increases clay workability that make this compact pugmill one of the most efficient and competitive on the market.

The **NRA-04S** is built with a standard safety limit switch, safety shut off switch (the hopper cannot be opened without shutting off the machine) and easy clean up with only six bolts to remove.

The **NRA-04S** pugmill includes a high quality stainless steel nozzle, auger case, and rollers.

## Features

- › Direct gear driven motor provides maximum mechanical force for blending, requiring minimum operator effort
- › High extruding capacity; twin stainless steel mixing augers blend and extrude up to 399 kg per hour
- › Dual safety system; limit switch automatically cuts power to pugmill when augers are exposed. Stop button allows for immediate operator control
- › High Quality Wedging Function; twin augers typically found only in large industrial machines, increase wedging capacity and produces practically air-free clay without a vacuum
- › Includes a clay cut-off wire and clay receiving table



**Easy Maintenance**

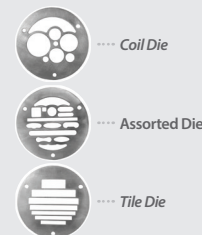


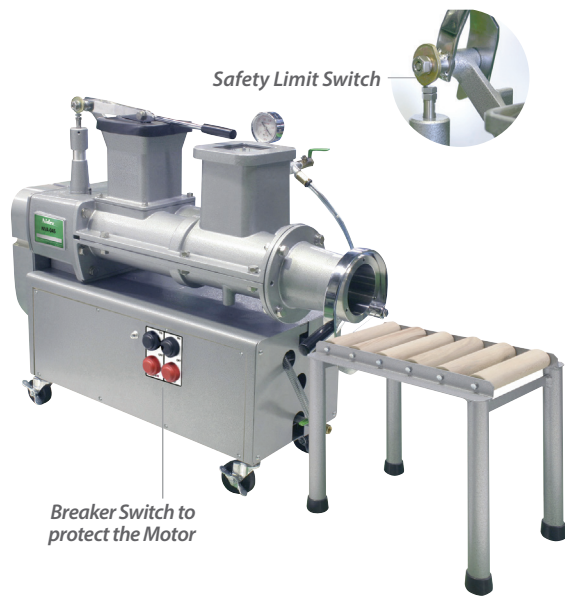
**Easy Access to Mixing Chamber**



**Twin Stainless Still Augers**

## Stainless Steel Dies Available





Safety Limit Switch

Breaker Switch to protect the Motor

## NVA-04S

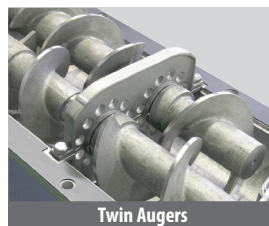
The **NVA-04S** is a **DE-AIRING** pugmill that features newly designed **TWIN AUGERS** and a forceful direct gear driven motor for remarkable extruding that produces air-free clay and increases clay workability. It features an all stainless-steel interior for use with porcelain and other light colored clay bodies. The high quality wedging and extruding capacity makes this compact pugmill one of the most efficient and competitive on the market.

### Features

- › Direct gear driven motor provides maximum mechanical force for blending requiring minimum operator effort
- › Twin cast stainless steel mixing augers blend and extrude up to 200 kg per hour
- › Dual safety system; limit switch automatically cuts power to pugmill when augers are exposed. Stop button allows for immediate operator control
- › Includes a clay cut-off wire, clay receiving table, and mounted on locking wheels
- › Air vacuum pump system (oil-free)



Easy Access and Maintenance



Twin Augers

### Stainless Steel Dies Available



Coil Die

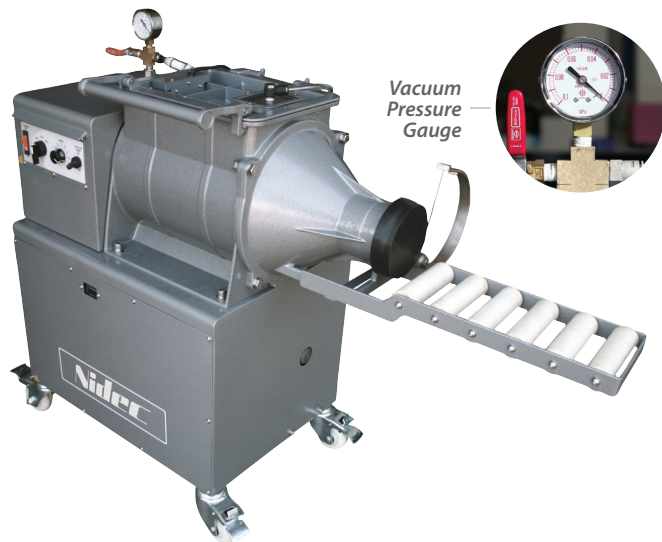


Assorted Die



Tile Die

<b>Motor</b>	Screw motor: Single phase, 230 V 400 w Pump motor: Single phase, 230 V, 250 W
<b>Extruding Capacity</b>	200 kg / hour
<b>Nozzle Diameter</b>	90 mm
<b>Dimensions</b>	920 (1320 including clay roller stand) x 420 x 750 mm
<b>Weight</b>	Main body 140 kg, Clay roller stand 5 kg



Vacuum  
Pressure  
Gauge



## NVS-07

The NVS-07 is a *DE-AIRING* pugmill mixer features a powerful 1HP Motor for mixing and extruding, it is all stainless steel, giant hopper and good size nozzle (which also is compatible with the add on dies), the clay cutter and roller shelf is included and very easy access for cleaning and maintenance. Also a great feature is the dual safety system that includes a limit switch and overload system.

### Features

- › All stainless steel
- › Dual safety system; limit switch and overload system
- › Powerful 1 HP Motor; mixing and extruding
- › Includes clay cut-off wire and clay receiving table
- › Oil-free vacuum pump system
- › Large hopper and nozzle
- › Max batch capacity 20.4 kg
- › Maintenance access; easy access for cleaning and maintenance



Hopper



Twin Augers



Easy to Operate Control Panel

#### Stainless Steel Dies Available



Coil Die



Assorted Die



Tile Die

<b>Motor</b>	1 HP, gear driven
<b>Power Source</b>	220 V / 50 HZ
<b>Dual Safety System</b>	Limit switch and overload system
<b>Max Batch Capacity</b>	20.4 kg
<b>Hopper Size</b>	216 x 292 mm
<b>Vacuum Pump System</b>	Air vacuum pump system (oil-free)
<b>Nozzle diameter</b>	90 mm nozzle opening
<b>Dimensions</b>	889 mm x 431.8 mm x 838.2 mm (1193.8 mm long with roller shelf extended)
<b>Weight</b>	140.6 kg

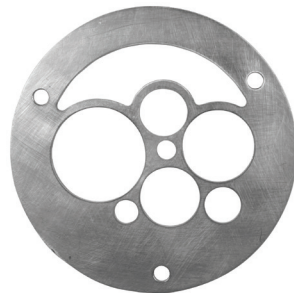
## STAINLESS STEEL DIES AVAILABLE

NIDEC-SHIMPO Pugmill extruding dies are made of stainless steel and fit any NRA-04, NVA-04S, and NVS-07 pugmill.



### ASSORTED DIE

The stainless steel Assorted Die fits the NRA-04, NVA-04S, and NVS-07 pugmill.



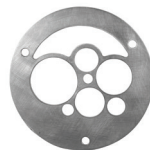
### COIL DIE

The stainless steel Coil Die fits the NRA-04, NVA-04S, and NVS-07 pugmill.



### TILE DIE

The stainless steel Tile Die fits the NRA-04, NVA-04S, and NVS-07 and pugmill.



### PUGMILL DIE SET

Dies fits the NRA-04, NVA-04S, and NVS-07 pugmill.

#### Pugmill Die Set

The Pugmill Die Set includes the Assorted Die, Coil Die and Tile Die.