U.S. STONEWARE™

NEW EQUIPMENT WARRANTY

We warrant that this equipment from U.S. Stoneware Corporation is within stated specifications and is free from defects in materials and workmanship

Our obligation under this warranty is limited to repairing or replacing F.O.B. our factory and defective parts in this product that to our satisfaction existed at time of shipment, provided the purchaser gives us written notice immediately upon discovery thereof, or in any event within one year from time of shipment.

Our warranty does not cover work or replacement of parts made necessary by carelessness, misuse, accident or by incidents which occur outside of use of the instrument such as water damage, lightning, etc. U.S. Stoneware's liability under this warranty shall not exceed the cost of correcting defects whether it be the correction of the defects or the replacement of the product. Claims based on any defect must be made in writing within 30 days of the purchaser's becoming aware of that defect for this warranty to apply. U.S. Stoneware assumes no liability for consequential or special damages in connection with this contract.

U.S. Stoneware shall have no liability for damages of any kind arising from the installation and / or use of this equipment by anyone. The purchaser, by the acceptance of this equipment, will assume all liability for any damages which may result from it's use or misuse.

This is our sole warranty with respect to this equipment. We make no other warranty of any kind whatever, express or implies, and all implied warranties of merchantability and fitness for a particular purpose which exceeds the above obligations are hereby disclaimed by U.S. Stoneware Corporation.

600 East Clark Street - East Palestine, OH - 44413 - 1-800-426-8808 - Fax (330)-426-1859

U.S. STONEWARE™

INSTRUCTIONS FOR INSTALLATION, OPERATION, AND MAINTENANCE OF MODEL 784 AVM JAR MILL

INSTALLATION:

* After placing machine in the desired location, position it so that the rolls are level. (Leveling feet are provided for this purpose)
* Line cords are furnished for 115 or 230 volt, single phase AC power supply. (Machine controls are compatible for 50 or 60 hz. operation)
* On/Off rocker switch is located on the line cord as well as on the controller.

Note: Proper rotation should be such that the top of the drive roller turns toward the jar being turned. (CW rotation when viewed from drive end of roller)

OPERATION:

* Refer to the enclosed chart to adjust the idle roller to the size of jar being used.
* To adjust the idle rollers, remove the wingnuts, etc. from the underside of the securing bolts and move the roller to desired location. Replace the bolts, wingnuts, etc.
* Roller speed is controlled by the speed pot on the control box. Refer to the enclosed chart to determine the setting for desired roller speed.

LUBRICATION:

* The motor and bearings are lubricated for life.
* Speed reducer - the oil should be replaced after the initial 1,000 hours of operation. Subsequent oil changes are required every 5,000 hours. An AGMA #4 SAE 40 weight gear lube is recommended. Never mix compounded and synthetic oils in the reducer.
* Roller Chain - lubricate bi-weekly with an SAE #30 weight oil.

Note: New chains will loosen up slightly as the joints seat themselves causing initial elongation which is many times greater than the elongation during the balance of chain life. A chain tensioner is located on the middle and upper tier chains to keep the chain taut as it may slacken. To adjust the tension on these chains, loosen the set screw on the tensioner arm, rotate the assembly further into the chain, and re-tighten the set screw. To adjust the tension of the chain from the reducer to the first tier, loosen the four jam nuts on the underside of the machine, <u>evenly</u> tighten the four cap screws located at the corners of the drive mounting plate, then re-tighten the jam nuts on the bottom of the machine.

REPLACEMENT PARTS:

* Parts can be identified by referring to the assembly drawing, bill of material, and power pack. When ordering replacement parts, please furnish part number, part name, and serial number of the machine.

U.S. STONEWARE™

Amendment to speed reducer instructions

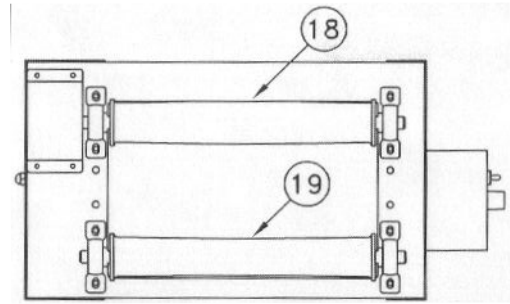
Due to production changes from our suppliers, the speed reduction units used in our line of jar mills may vary from those illustrated.

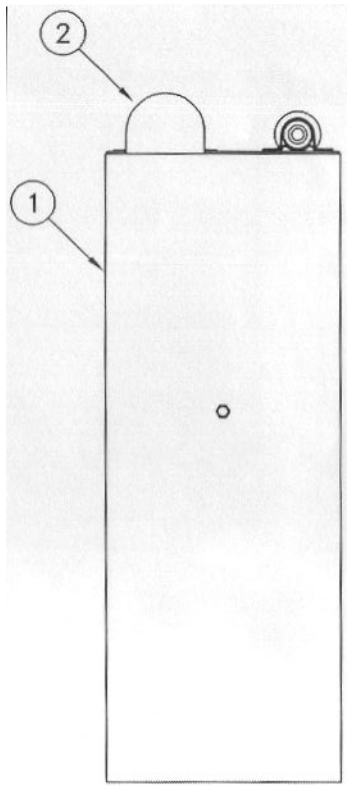
The new speed reducers are equipped with an internal bladder which eliminates the need for breathers, therefore any instructions that refer to breathers should be disregarded.

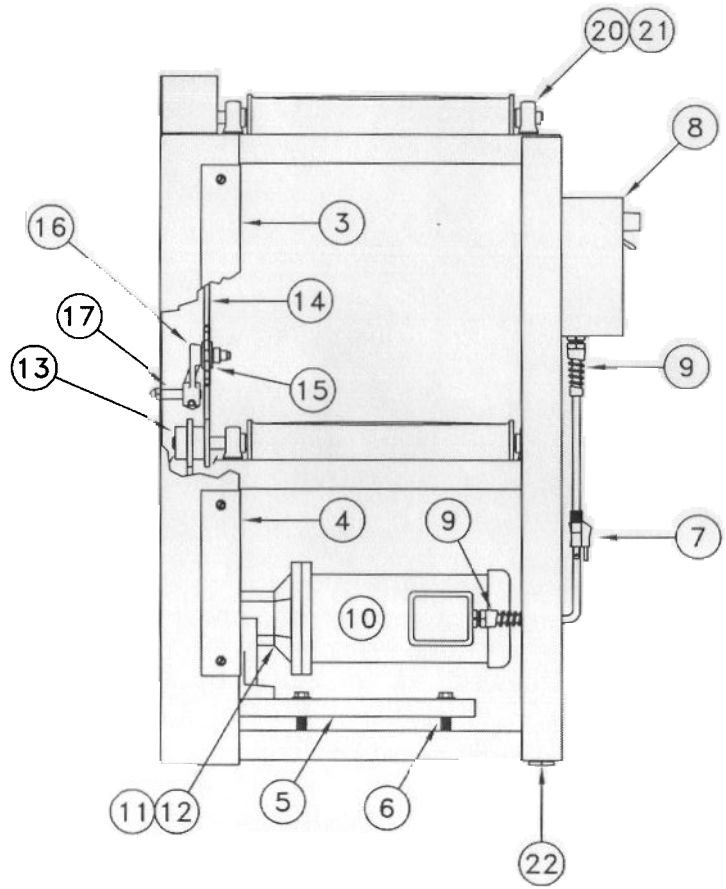
This new system does not require the gear oil to be changed unless the unit has been disassembled for maintenance. If the oil is to be replaced, use Mobil SHC634.

Thank you for purchasing a quality built U.S. Stoneware Product!

600 East Clark Street * East Palestine, OH. * 1-800-426-8808 * Fax 330-426-1859







BILL OF MATERIAL FOR: M93122DC DATE: 08/09/2005

ITEM	QTY.	PART NUMBER	DESCRIPTION	SIZE
1	1	P90409	MACHINE BASE	784AVM
2	1	P90401	TOP GUARD	
3	1	P90402DC	SIDE GUARD	
4	1	P90401DC	BOTTOM GUARD	
5	1	P90420	MOTOR MOUNT PLATE	
6	4	P32436	SPRINGS	M3
7	1	P26314	LINE CORD	
8	1	EL0038	CONTROL PANEL	
9	3	P06441-P	STRAIN RELIEF	
10	1	EL0033	MOTOR	1/4 HP
11	1	P07821DC	REDUCER	5:1
12	1	P08147	MOUNTING FOOT SET FOR REDUCER	
13	4	P08103	SPROCKET	40FB14X5/8"
14	72	P06212	ROLLER CHAIN	#40
15	1	P08109	IDLER SPROCKET	41BB18
16	1	P08108	CHAIN TENSIONER ARM	
17	1	P08117	IDLE EXTENSION SHAFT	
18	2	P07505	DRIVE ROLLER	
19	2	P07501	IDLE ROLLER	
20	8	P06517	PILLOW BLOCK SET (BEARING CLAMP)	
21	8	P06516	BEARINGS	FHS20210X5/8"
22	2	P09964	ADJUSTABLE FOOT	

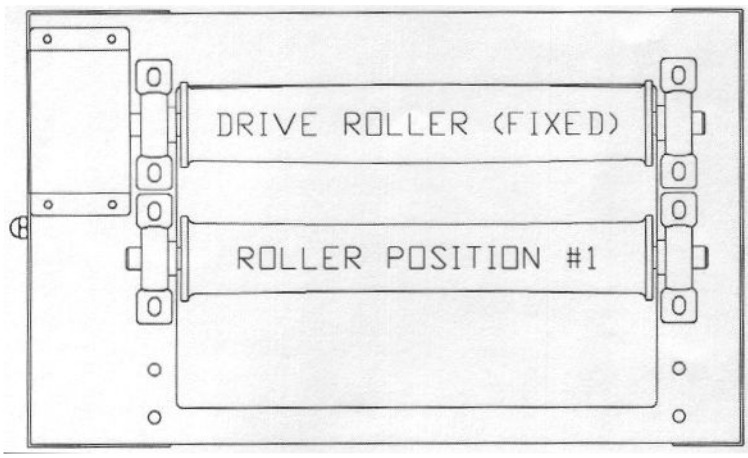
VOLTAGE REQUIREMENTS: 115/50-60/1 ROLLER R.P.M. 20 - 300

MANUFACTURING STANDARDS
ALL WELDS TO CONFORM TO AWS D1.1-LATEST REVISION
UNTOLERANCED FABRICATED DIMENSIONS
.X = ±.020
.XX = ±.010
.XXX = ±.005
FRACTIONS = ±1/32
ANGLES = ±1/2°

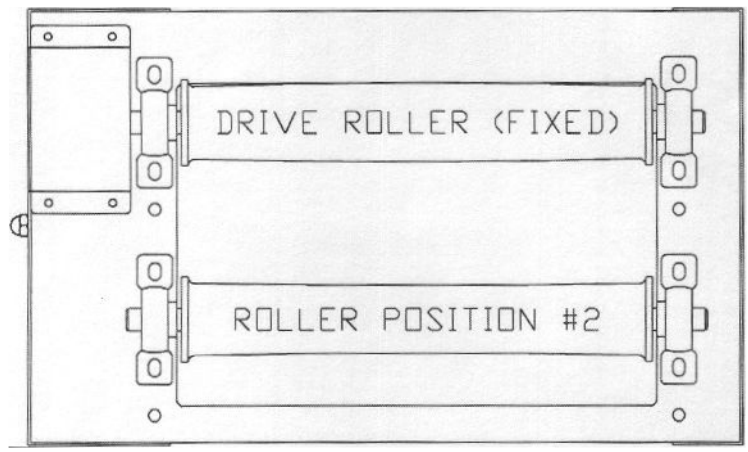
THIS DRAWING IS THE PROPERTY OF:
U.S. STONEWARE
600 EAST CLARK STREET
EAST PALESTINE, OHIO 44413

JOB NO. XXXX
SCALE: N/A
DRAWING OF:
PART IDENTIFICATION
FOR 784 AVM - 115 VOLT
DRAWN BY: G.L.G. DATE: 08/09/05
CHECKED BY: XXXX DATE: XXXX
DRAWING NO. PTID784AVM115

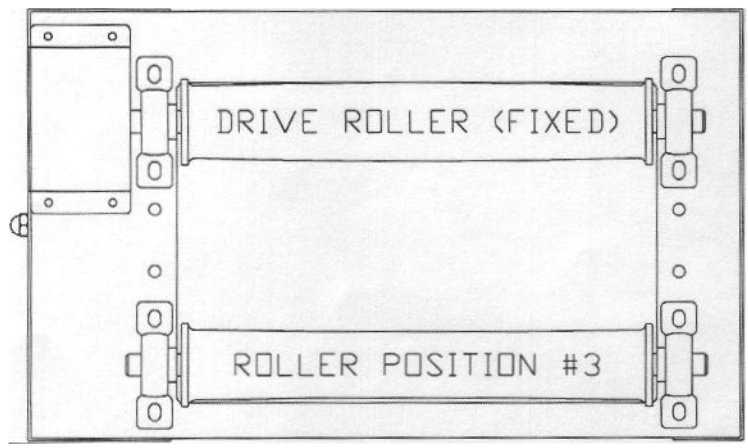
784 A & V SERIES JAR MILLS



SUGGESTED JAR
DIAMETERS 2 1/2"-4"
3 3/4" CENTER



SUGGESTED JAR
DIAMETERS 4"-7"
5 1/2" CENTER



SUGGESTED JAR
DIAMETERS 7"-10"
7" CENTER

U.S. STONEWARE

Approximate Roller Speed Settings For 700 Series Jar Mills

Dial Position	R.P.M.
0	20
5	28
10	41
15	54
20	69
25	81
30	94
35	106
40	121
45	137
50	155
55	174
60	190
65	205
70	220
75	233
80	247
85	260
90	276
95	290
100	300

Replacing Brushes in D.C. Motors

1.) Locate, and remove the two plastic caps near the rear of the motor. (2 screws each)

Note: Depending on model, the motor may have to be removed for accessibility.

2.) Slowly remove the plastic screws found under caps. (1 each side) Screws are under a slight spring tension, take caution as to not lose small parts.

3.) Remove brushes and replace with a new set.

4.) Carefully replace screws, do not over tighten.

5.) Replace caps and re-secure with screws.

Worn out brushes will cause the motor to lose power, run intermittently and cause damage to the armature.

Brushes should be checked periodically for wear. (Minimum of twice a year)

U.S. Group * 600 East Clark St. * East Palestine, OH. * 44413 * 1-800-426-8808 * Fax (330)-426-1859

U.S. STONEWARE™

Separating C-Face Style Reducers From Motors

Disconnect all electrical power to the machine.

Disconnect wiring to the motor / reducer combination

Remove the motor / reducer combination from machine base.

Placing the unit on a secure working area, remove the four (4) bolts securing the two units together. (These are the only fasteners holding these parts together)

Holding onto the motor and the reducer bodies, gently rotate and pull the two pieces to break free from each other.

Once the motor and reducer begin to separate, a continued straight line of pull is important to keep the units from binding against each other.

In the event the two parts are, or become stuck or galled together, use two "standard" screwdrivers (180 degrees from each other) to gently and evenly pry the motor and reducer apart.

The use of a penetrating / lubricating spray may be required to assist with the separation of the parts.

600 East Clark Street * East Palestine, OH * 44413 * (800)-426-8808 * Fax (330)-426-1859