

Title of Training	Mortar Mixer Safety Training	
Equipment Info.	Make/Type/Size/Model	Stow (Gas) Mortar Mixer Model M20
Material Needed	Operators Manual	
	Open Area to Operate & Mix Product	

SAFETY WARNINGS

- NEVER** ALLOW ANYONE TO OPERATE THE MIXER UNLESS THE PERSON IS TRAINED WITH THESE RULES OF SAFE OPERATION.
- NEVER** OPERATE THE MIXER WITH THE ENGINE COVER OPEN.
- NEVER** OPERATE THE MIXER WITHOUT ALL GUARDS IN PLACE AND FIRMLY ATTACHED TO THE MIXER.
- BEFORE STARTING OR STOPPING THE ENGINE MAKE CERTAIN THAT THE BELT SLIP LEVER IS IN THE “*START/STOP*” (**DRIVE TRAIN DISENGAGED**) POSITION.
- WHEN CLEANING, LUBRICATING, OR ADJUSTING THE MIXER, STOP THE ENGINE, DISCONNECT THE SPARK PLUG WIRE AND SECURE IT **AWAY** FROM CONTACT WITH THE SPARK PLUG.
- BEFORE USING OR OPERATING THE MIXER MAKE CERTAIN THE DRUM LOCK PIN IS IN THE CORRECT POSITION.
- KEEP ALL PEOPLE (EXCEPT OPERATOR) A MINIMUM OF 5 FEET AWAY FROM THE MIXER DURING OPERATION.
- IF FOR ANY REASON POWER IS INTERRUPTED TO THE DRIVE TRAIN WHILE MIXING, THE DRUM AND HANDLE MAY ROTATE.
- DO NOT OVERLOAD THE MIXER!**
- NEVER** ATTEMPT TO MOVE MIXER WHILE THE ENGINE IS ON OR WHILE THE MIXER IS LOADED.
- ALWAYS** KEEP DRUM GUARD UNIT CLOSED WHILE THE MIXER PADDLES ARE IN MOTION.



SAFETY INSTRUCTIONS

FOR THE SAFETY OF YOURSELF AND OTHERS WORKING AROUND YOU, IT IS EXTREMELY IMPORTANT THAT YOU OBSERVE THE FOLLOWING NOTES.

- DO NOT** USE OR OPERATE GASOLINE POWERED MACHINES INSIDE OF A BUILDING OR OTHER ENCLOSED ENVIRONMENTS THAT ARE NOT FULLY VENTED TO THE OUTSIDE ATMOSPHERE. THE EXHAUST CONTAINS **CARBON MONOXIDE**, A POISONOUS, ODORLESS, AND INVISIBLE GAS, WHICH IS INHALED, CAUSES SERIOUS ILLNESS AND POSSIBLE DEATH.
- KEEP HANDS AND CLOTHING **AWAY** FROM MOVING PARTS AT ALL TIMES.
- NEVER** OPERATE THIS MACHINE UNDER THE INFLUENCE OF ALCOHOL OR WHILE TAKING MEDICATIONS THAT IMPAIR THE SENSES OR REACTION TIME.
- IF THE DRUM LOCK PIN IS NOT IN THE PROPER POSITION, SERIOUS PERSONAL INJURY COULD OCCUR FROM MOVEMENT OF THE DRUM GRATE AND/OR HANDLE.
- NEVER** REFUEL THE MACHINE UNLESS THE ENGINE IS STOPPED. REFUELING OF A HOT ENGINE IS **NOT** RECOMMENDED. BURNS OR EXPLOSION CAN RESULT IF SPILLING OF FUEL OCCURS AND MAY TO A SERIOUS PERSONAL INJURY. **NEVER** OVERFILL THE FUEL TANK.

Trainee Name (print)		Signature of Trainee	
Instructor Name		Date of Training	
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NOTE: ALWAYS CLOSE THE FUEL SHUT-OFF VALVE BEFORE REFUELING.

6. MAKE CERTAIN THAT THE WORK AREA AROUND THE MIXER IS CLEAR OF DEBRIS AND OBSTRUCTIONS TO PREVENT TIPPING AND/OR FALLING ONTO THE MIXER.
7. KEEP ALL UNAUTHORIZED AND UNTRAINED PEOPLE AWAY FROM THE MIXER AT ALL TIMES.
8. **NEVER** LET THE MIXER RUN UNATTENDED, EVEN FOR A BRIEF MOMENT. STOP THE ENGINE WHENEVER YOU LEAVE THE MIXER.
9. ONLY USE OR OPERATE THE MIXER ON LEVEL GROUND TO PREVENT THE MIXER FROM TIPPING OVER.
10. ALWAYS WEAR PROPER PPE WHEN OPERATING OR MOVING THE MIXER. PPE REQUIRED FOR MIXING IS A HARD HAT WITH GOGGLES, SAFETY GLASSES, STEEL TOED WORK BOOTS, HEARING PROTECTION AND SOMETIMES A DUST MASK TO AVOID BREATHING IN MORTAR DUST.

STARTING

- BEFORE DOING ANYTHING FURTHER, MAKE CERTAIN THAT THE BELT SLIP LEVER IS IN THE “*START/STOP*” (**DRIVE TRAIN DISENGAGED**) POSITION.
- CHECK TO SEE THAT THE DRUM IS CLEAR OF ANY OBSTACLES AND THE DRUM GRATE IS CLOSED.
- CHECK THE OIL LEVEL IN ENGINE AND CONDITION OF THE AIR CLEANER.

TO START ENGINE

1. OPEN FUEL VALVE BY MOVING THE LEVER TO THE RIGHT

NOTE: IF ENGINE IS COLD, MOVE THE CHOKE LEVER TO THE *CLOSED* POSITION. IF THE ENGINE IS HOT GET THE CHOKE TO THE *OPEN* POSITION.

2. TURN THE ENGINE SWITCH TO THE “*ON*” POSITION.
3. OPEN THE THROTTLE BY MOVING IT SLIGHTLY TO THE LEFT.
4. PULL THE STARTER ROPE.

NOTE: DO NOT LET THE STARTER HANDLE SNAP BACK. GUIDE

BACK INTO PLACE SO THAT THE STARTER ROPE IS CORRECTLY WOUND.

5. OPEN CHOKE AS THE ENGINE WARMS.
6. OPEN THROTTLE FULLY TO OPERATE MIXER.
7. CLOSE THE ENGINE COVER AND LATCH BOTH SIDES SECURELY **BEFORE** PUTTING THE BELT SLIP LEVER IN THE “*MIX*” (**DRIVE TRAIN ENGAGED**) POSITION.

CHARGING THE MIXER

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1. PLACE THE INGREDIENTS INTO THE DRUM IN THE FOLLOWING ORDER, AFTER ENGAGING PADDLES.
 1. HALF OF REQUIRED WATER
 2. HALF OF REQUIRED SAND
 3. REQUIRED MORTAR CEMENT
 4. BALANCE OF WATER
 5. BALANCE OF SAND

2. IT IS RECOMMENDED ADDING HALF THE REQUIRED WATER FOR THE NEXT MIX IMMEDIATELY AFTER DISCHARGING BATCH AND PERMITTING PADDLES TO TURN IN WATER FOR A SHORT PERIOD OF TIME. THIS PROCEDURE WILL HELP TO KEEP BOTH DRUM AND PADDLES CLEAN, AND THE NEXT BATCH FREE OF LUMPS. THOROUGH CLEANING OF THIS MIXER AFTER EACH USE IS RECOMMENDED AND WILL ADD TO THE SERVICE LIFE OF THE MACHINE.

STOPPING

1. SLIP LEVER IN THE “STOP/START” (**DRIVE TRAIN DISENGAGED**) POSITION.
2. UNLATCH AND RAISE THE ENGINE COVER. CAREFULLY LOCATE THE ENGINE THROTTLE AND LOWER THE ENGINE SPEED. TURN THE ENGINE STOP SWITCH TO THE *STOP* POSITION.
3. TURN THE FUEL VALVE TO THE *OFF* POSITION AND RETURN THE ENGINE COVER TO THE *CLOSE* POSITION AND SECURELY LATCH IT SHUT.

MIXING/DUMPING MORTAR

1. WHEN CHARGING, MIXING, OR DUMPING A BATCH OF PLASTER OR MORTAR THE DRUM LOCK PIN SHOULD BE PLACED TO THE LEFT (WHEN VIEWING THE MIXER FROM THE TOWPOLE END). OF THE DRUM STOP BLOCK WHICH IS WELDED TO THE FRONT SIDE SHEET OF THE DRUM. THIS WILL ALLOW THE OPERATOR TO USE BOTH HANDS ON THE DRUM HANDLE DURING DUMPING.

Note: This STT does not necessarily cover all possible hazards associated with this equipment and should be used in conjunction with other references (Owner’s Manual & Brieser Safety Manual). It is designed as a guide to be used to compliment training and as a reminder to users prior to equipment use.

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EMPLOYEE NAME (Print or Type)	EMPLOYEE SIGNATURE	TRADE	JOB TITLE
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