

Task: Milling Grain	Date Modified: 7/21/20
Dept: Brewers	Initials: PC

Purpose

This SOP describes XXXXX Brewing Company's procedure for safe and effective milling of grain for brewing.

Responsibilities

Any XXXXX Brewing Employee who uses the mill will first be trained and approved for use of the equipment and materials specified, as according to this SOP.

Equipment and Materials

Protective Eyewear/Mask	Non-Slip Boots	Grain
Mill	Forklift	Knife/Scissors

Procedure

- 1) Make sure to have proper PPE
 - Boots
 - Protective eyewear
 - Mask
- 2) Get/Print out the brewsheet for the beer that needs to be milled in
- 3) Check ekos to make sure that it matches the brewsheet
- 4) Use the forklift to place a pallet of whatever base malt for this particular beer's recipe calls for on the stand in front of the mill
- 5) Pull all of the other specialty malts and place them on the stand in front of the mill as well
- 6) Turn on the switch that is connected to the mill and the two augers that bring the grain from the mill to the grist bin
- 7) Set the two dials on the mill to the correct setting based on the particular type of grain that is being milled
 - These settings will be listed near the switch to turn the mill on and off
 - Whenever it is a grain such as wheat that requires a tighter mill setting, pour that grain in slower in order to keep from clogging the mill or auger

- 8) Before adding any grain to the mill, make a visual check that both augers are turning
- 9) Cut open your first bag, and begin pouring it in the mill
 - Make sure that the first 2 bags and the last 2 bags are base malt, with all of the specialty malt mixed into the middle
- 10) Once all the grain has been milled in, and it has had time to clear through the auger into the grist bin, turn the mill off
- 11) Pick up the empty bags, and take them to the dumpster out back
- 12) Sweep up around the mill

Potential Hazards	Controls	PPE
Crush/Cut	1. Do not remove grate covering mill rollers when mill is on 2. Cut power at breaker before any maintenance 3. Make sure nothing is hanging off that could get caught in mill 4. Closing/putting knife down in between cutting and dumping bags	Non-Slip Boots, Mask, Protective Eyewear
Heavy Lifting	1. Use forklift to place majority of bags near mill 2. Proper lifting technique (Lift with legs) 3. Forklift certification	