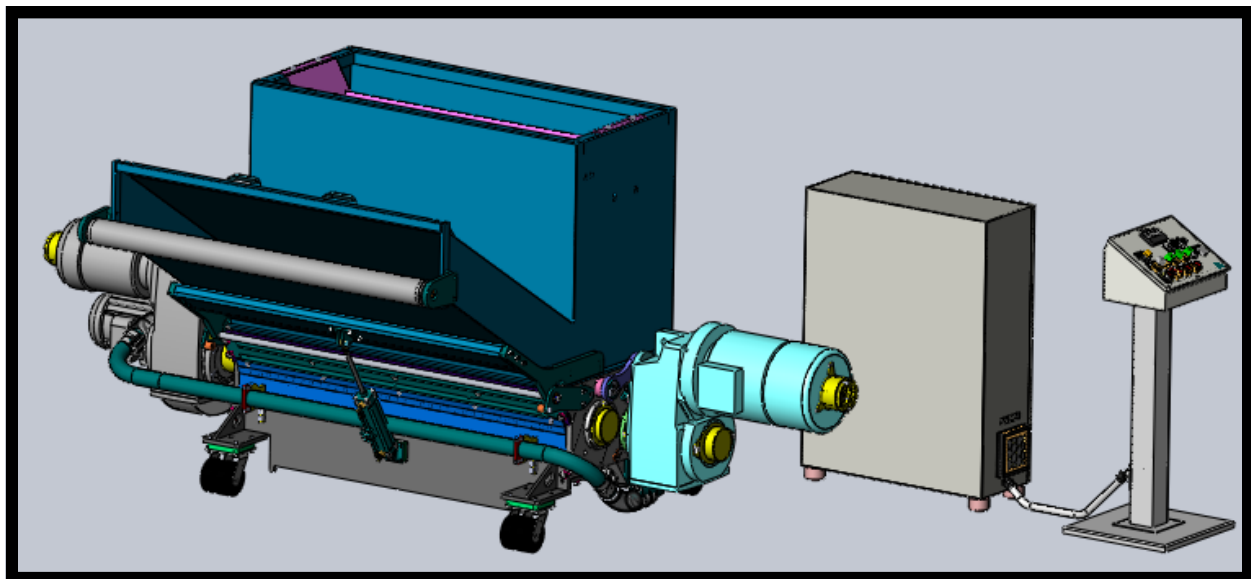




**BM4179**

**CHESAW OPERATIONS MANUAL  
MODEL 50 CLS**



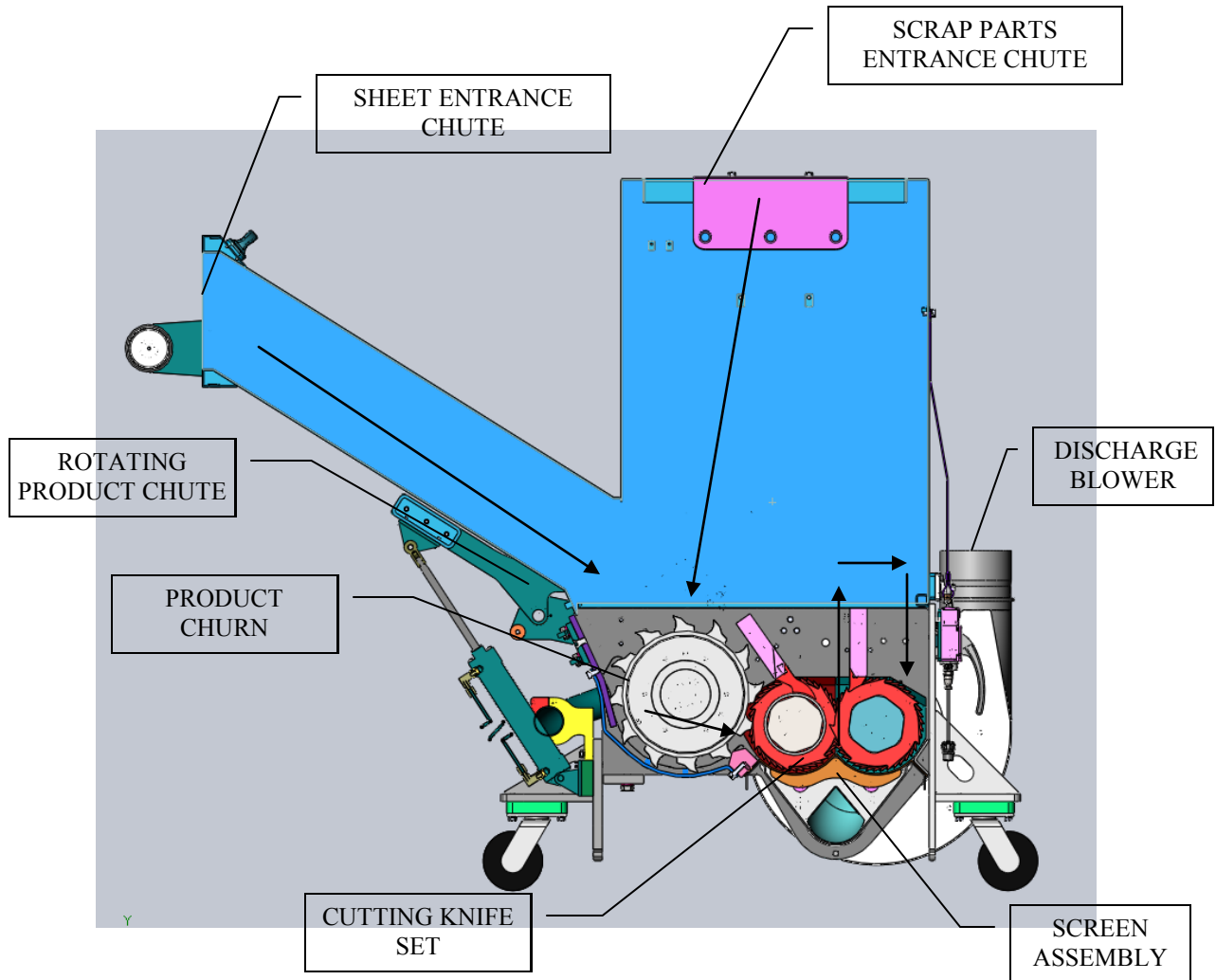
This Manual Saved As P:\Chesaw Operations Manual\50 CLS Chesaw  
Last Revised 7-1-2014



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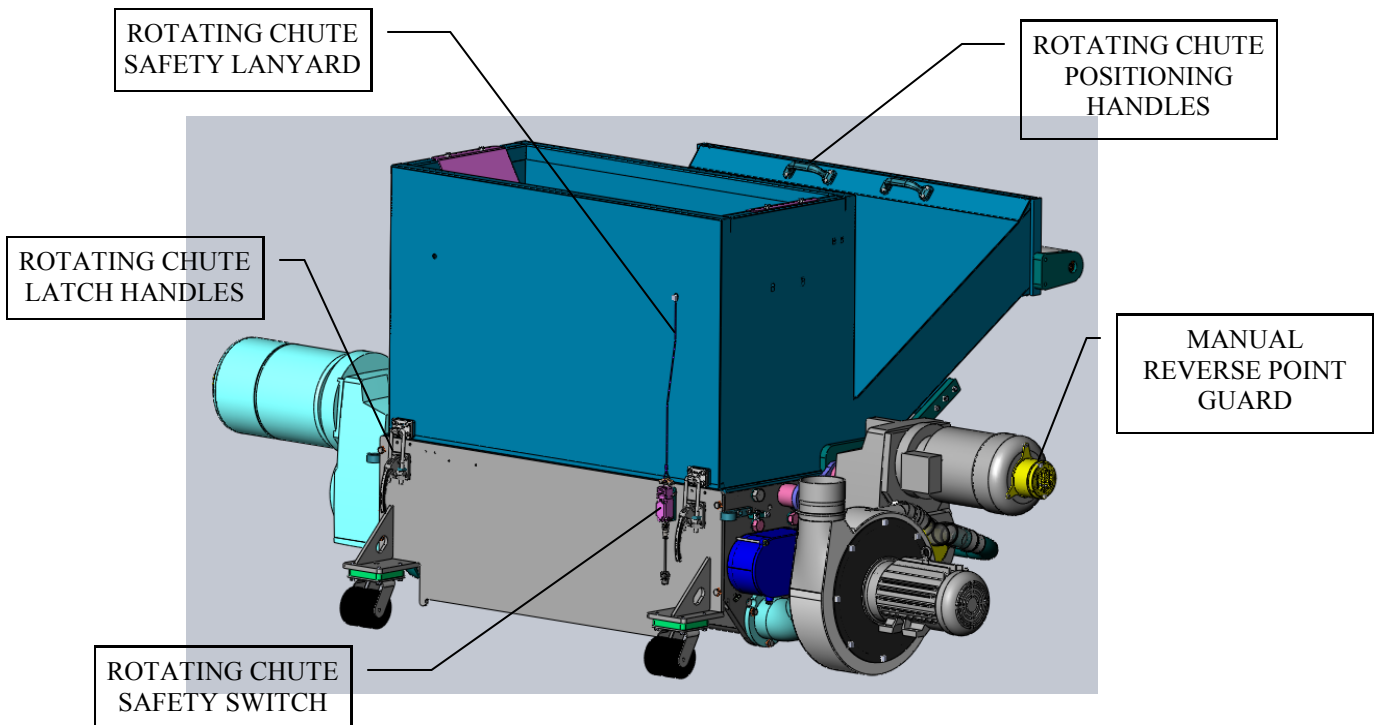
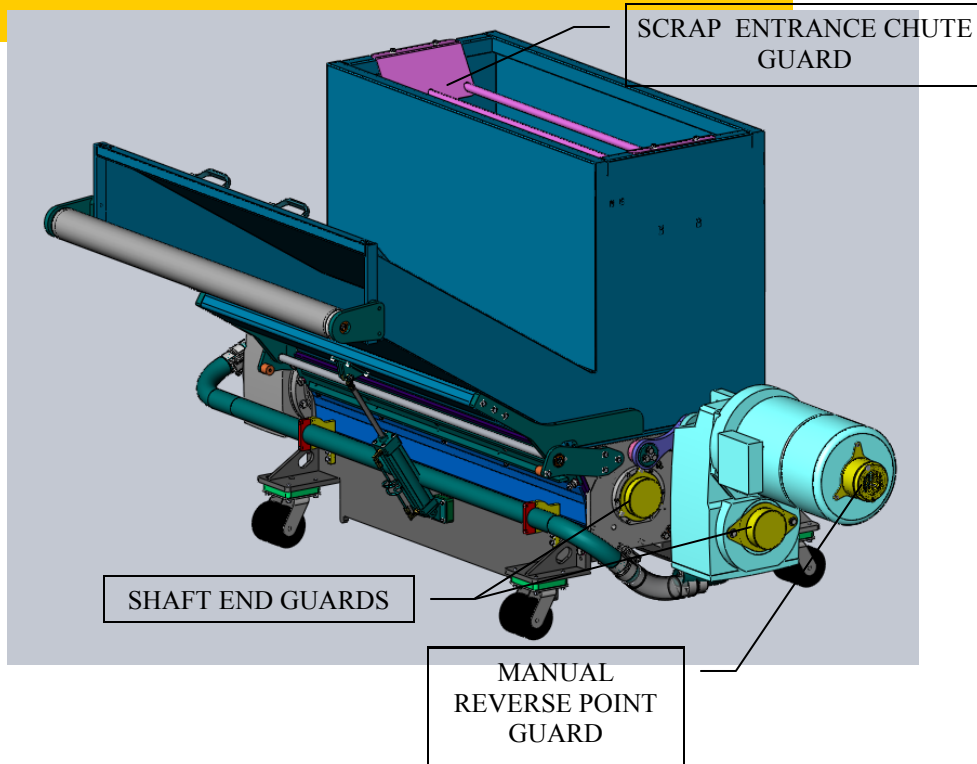
# MATERIAL FLOW DIAGRAM



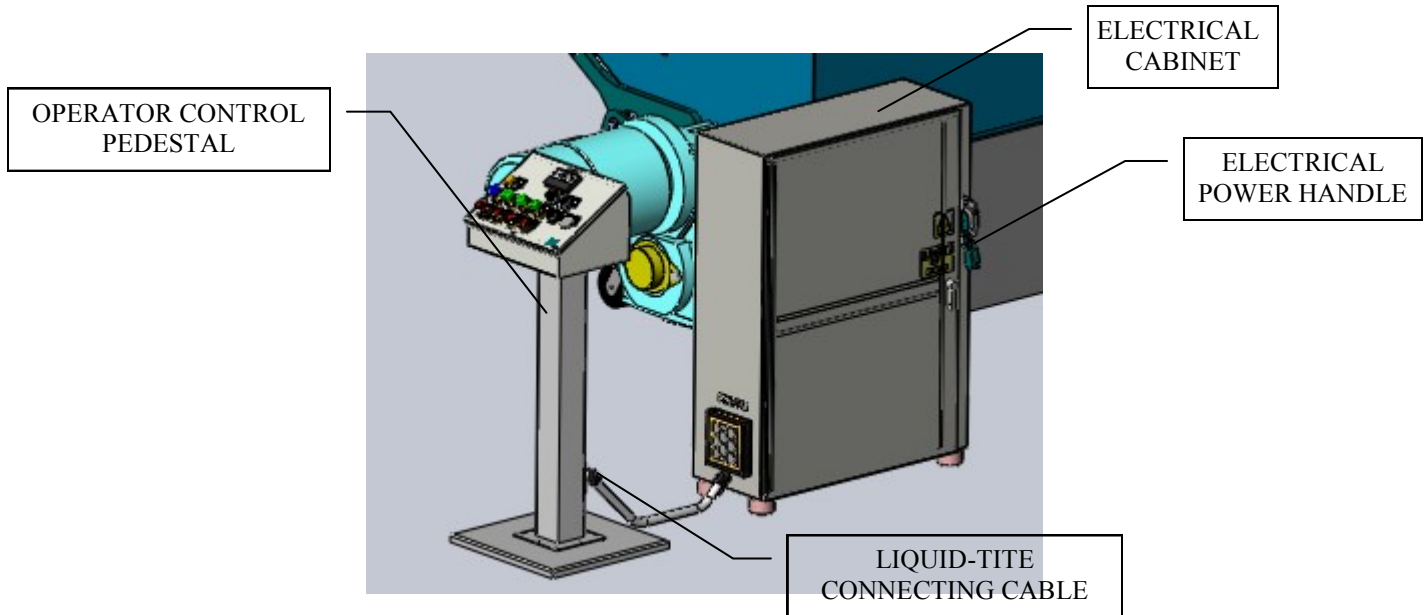
Material can enter the 50 CLS Chesaw in two places. First, Sheet material to be reground is introduced through the Sheet Entrance Chute, the sheet is then grabbed by the Product Churn and pulled into the Cutting Knife Set that cuts the material in approximately 3/8" x 3-1/2" long pieces that continue to be ground until it is reduced enough to fall through the Screen Assembly and sucked out of the machine by the Discharge Blower.

Second, Scrap parts can be introduced into the machine through the Scrap Parts Entrance Chute and then the parts are ground exactly like the previous process.

# SAFETY SYSTEMS



# PRE-POWER UP PROCEDURES



STEP 1—BEFORE STARTING OPERATIONS MAKE SURE AREA AROUND MACHINE IS CLEAR OF ALL NON ESSENTIAL PERSONNEL AND OBSTRUCTIONS.

STEP 2—VISUALLY INSPECT BOTH ENTRANCES OF THE GRINDER FOR ANY OBSTRUCTIONS OR FOREIGN OBJECTS BEFORE STARTING

STEP 3—CHECK ELECTRICAL LOCK OUT TAG OUTS

STEP 4—REMOVE ALL ELECTRICAL LOCK OUT TAG OUTS ONCE AREA IS CLEARED AND SAFE FOR OPERATIONS

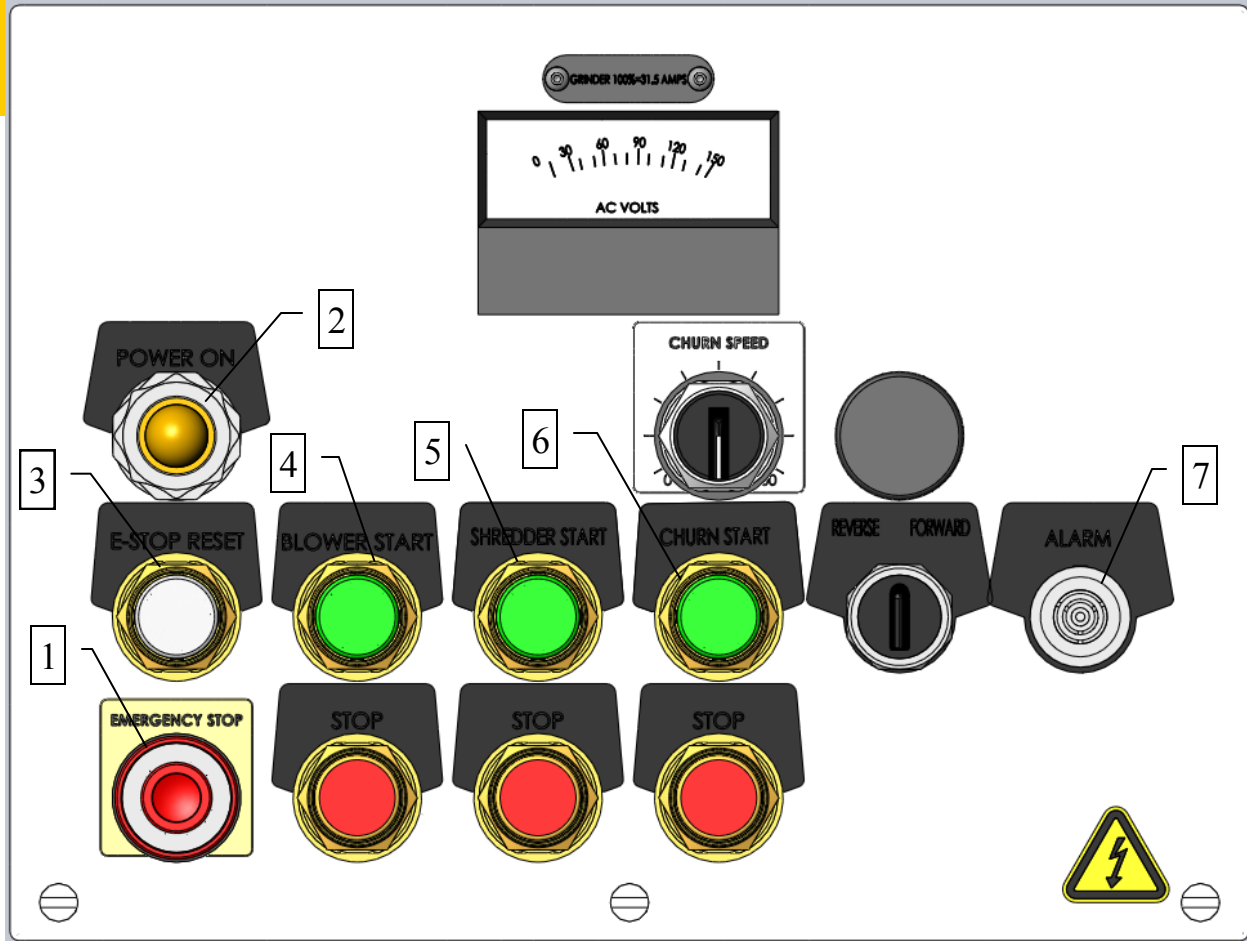
STEP 5—MAKE SURE ALL “E STOP” BUTTONS ARE DISENGAGED AND READY FOR POWER UP PROCEDURES.

STEP 6—LIFT ELECTRICAL POWER HANDLE ON ELECTRICAL CABINET TO SUPPLY POWER TO THE OPERATOR CONTROL PEDESTAL.

STEP 7—THE OPERATOR CONTROL PEDESTAL SHOULD HAVE A “YELLOW” LIGHT ILLUMINATED THAT IS LABELED “POWER ON” - LABEL #2 ON NEXT PAGE

STEP 8—PROCEED TO NEXT PAGE FOR A DETAILED DIAGRAM OF THE OPERATOR CONTROL PEDESTAL AND POWER UP PROCEDURES.

# POWER UP PROCEDURES



#1 - PULL ALL EMERGENCY STOP BUTTONS TO UP OR "ON" POSITION

#2 - POWER ON BUTTON - SHOULD ILLUMINATED - YELLOW

#3 - PUSH E-STOP RESET BUTTON - SHOULD ILLUMINATE - BLUE

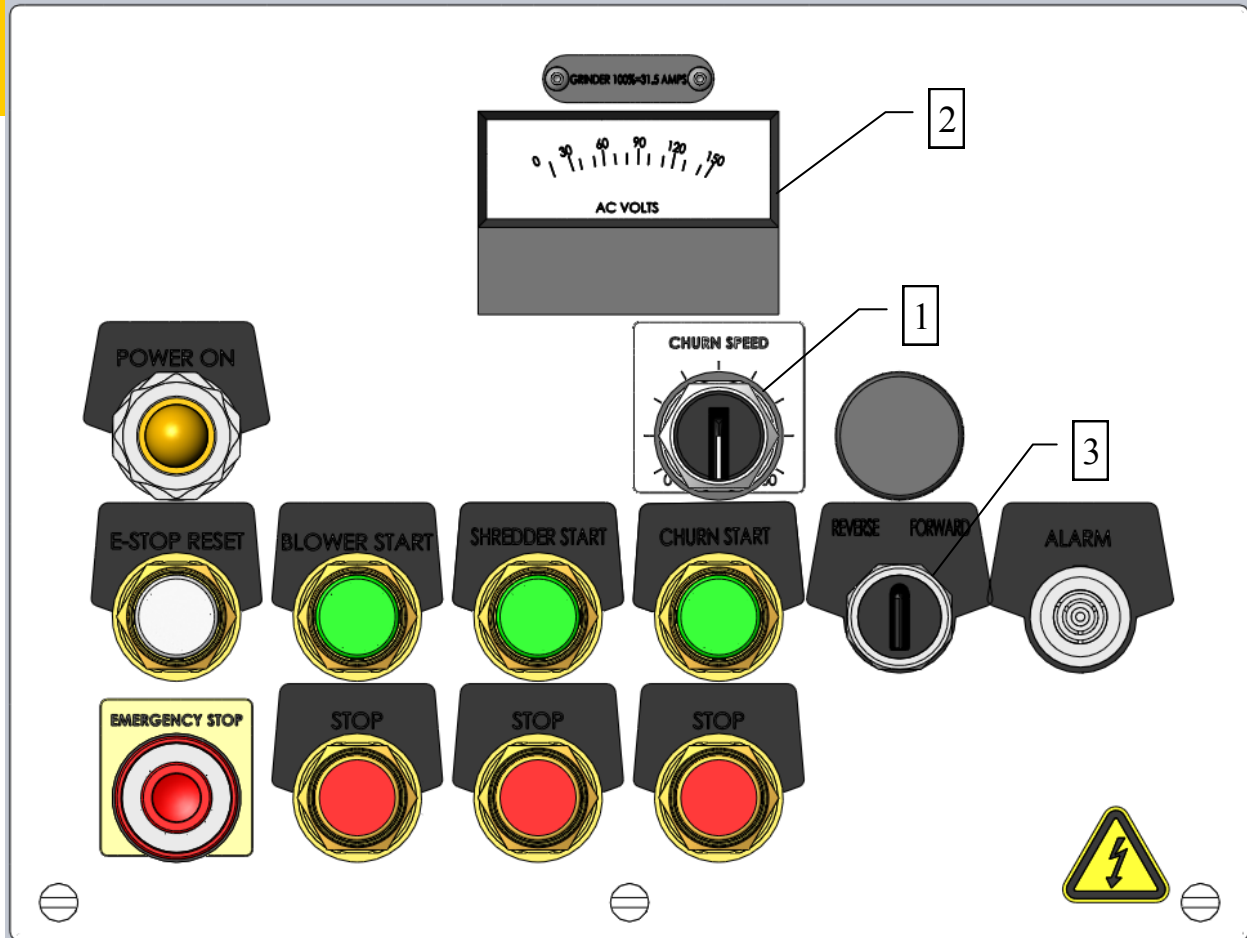
#4 - PUSH BLOWER START BUTTON - SHOULD ILLUMINATE - GREEN

#5 - PUSH SHREDDER START BUTTON - SHOULD ILLUMINATE - GREEN

#6 - PUSH CHURN START BUTTON - ALARM (#7) WILL SOUND FOR 3 SECONDS THEN SHOULD ILLUMINATE - GREEN

**CHESAW SHOULD BE FULLY FUNCTIONING AND READY FOR USE**

# OPERATIONS PROCEDURES



## AFTER GRINDER IS POWERED UP AND RUNNING

#1 - CHURN SPEED REGULATOR -

SET CHURN SPEED TO A SPEED THAT WILL NOT OVERLOAD THE CHESAW BUT WILL PRODUCE AN ACCEPTABLE OUT PUT LEVEL - SEE #2

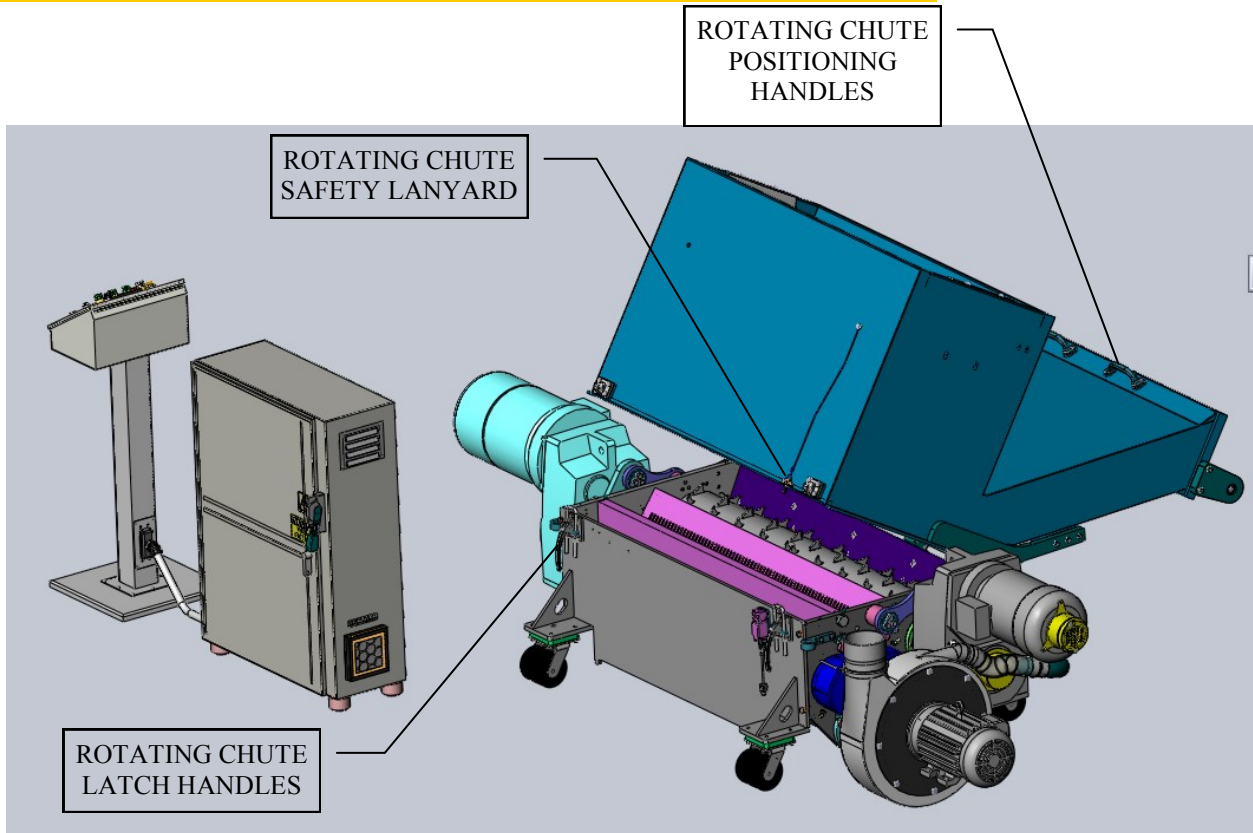
#2 - SHREDDER LOAD METER -

THIS WILL DETERMINE #1 - SET CHURN SPEED TO A LEVEL THAT WILL CAUSE THE CHESAW TO RUN IN A SAFE AMPERAGE RANGE (UNDER 100% = 38 AMPS)

#3 - REVERSE/FORWARD CONTROL -

THIS CONTROL GIVES YOU THE ABILITY TO MANUALLY REVERSE THE DIRECTION OF THE PRODUCT CHURN, BRIEFLY, TO HELP CLEAN OUT ANY BUILD UP OR BLOCKAGE OF MATERIAL AND THEN RETURN CONTROL TO FORWARD POSITION

# CLEAN OUT PROCEDURES



STEP#1 - STOP POWER TO ALL FUNCTIONS OF CHESAW

STEP#2 - DISCONNECT CHESAW ELECTRICALLY AND LOCK OUT TAG OUT ELECTRICAL CABINET AND POWER HANDLE

STEP#3 - REMOVE ROTATING CHUTE SAFETY LANYARD AND KEY FROM M SAFETY SWITCH

STEP#4 - LIFT AND UN-LATCH ROTATING CHUTE LATCH HANDLES

STEP#5 - USING ROTATING CHUTE POSITIONING HANDLES, ROTATE CHUTE TO FULLY OPEN POSITION TO EXPOSE CUTTING CHAMBER

STEP#6 - PROCEED TO CLEAN OUT MATERIAL - USE EXTREME CAUTION - KNIVES AND CHURN PRODS ARE VERY SHARP - GLOVES ARE RECOMMENDED

STEP #7 - REVERSE STEPS 1-5 TO RETURN CHESAW TO PRE-POWER UP STATE  
(See page 5 then page 6)





# Contact and Support Information

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**Irwin Research and Development is committed to providing our customers with quality service and support.**

**Irwin Research and Development  
P.O. Box 10668  
Yakima, WA 98909-1668  
(509) 248-0194**

**For assistance in specific areas feel free to contact the departments below**

Chesaw Sales and Spare Parts

**Irwin Sales Department**

Technical/Mechanical Support

**Irwin Chesaw Engineering Department**