

[www.monoequip.com](http://www.monoequip.com)

Enter **Serial No.** here. \_\_\_\_\_

In the event of an enquiry please quote this serial number.



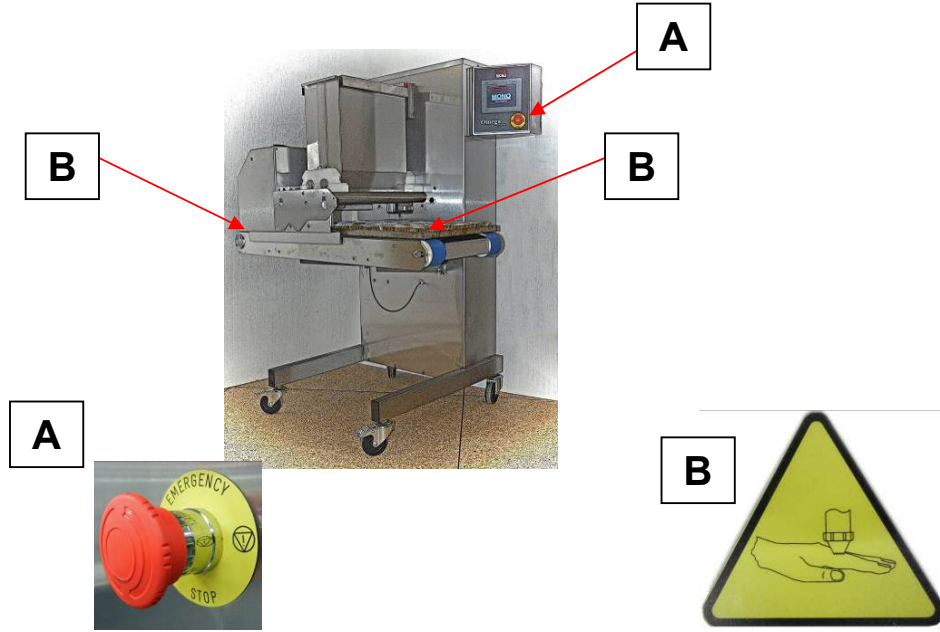
# “OMEGA PLUS”

## INCLUDING WIRECUT VERSION DEPOSITOR (400, 450)

The use of templates and/or accessories not produced or supplied by MONO Equipment will invalidate the machine's warranty

FILE 100

# SAFETY LABELS FOR OMEGA DEPOSITOR



ON REMOVABLE SHEETING - 1OFF BACK SHEET, 1OFF BACK OF CONTROL BOX



ON MAIN PANEL CIRCUIT BREAKERS



SMALL COPY ON STEPPER MOTOR AMPLIFIER AND LARGE COPY ON INSIDE LEFT BODY PANEL.

## **SAFETY SYMBOLS**

The following safety symbols are used throughout this product documentation and manual (available at [www.monoequip.com](http://www.monoequip.com)).

Before using your new equipment, read the instruction manual carefully and pay special attention to information marked with the following symbols.



### **WARNING**

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.



### **WARNING**

Indicates a hazardous situation which, if not avoided, will result in electric shock.



### **CAUTION**

Indicates a hazardous situation which, if not avoided, will result in minor or moderate injury.

**Failure to adhere to the cleaning and maintenance instructions detailed in this booklet could affect the warranty of this machine.**



**WIRECUT VERSION**

**The use of templates and/or accessories not produced or supplied by MONO Equipment will invalidate the machine's warranty**

- 1.0 - INTRODUCTION
- 2.0 - DIMENSIONS
- 3.0 - SPECIFICATIONS
- 4.0 - SAFETY
- 5.0 - INSTALLATION
- 6.0 - ISOLATION
- 7.0 - CLEANING INSTRUCTIONS
- 8.0 - OPERATING CONDITIONS
- 9.0 - PREPARING FOR OPERATION**
  - 9A – FITTING THE HOPPER**
  - 9B – FITTING A TEMPLATE**
- 10.0 - OPERATING INSTRUCTIONS**
  - 1 – SELECT PRODUCT TYPE**
  - 2 – SELECT SAVED NAME OF PRODUCT TYPE**
  - 3 – CONFIRM SETUP**
  - 4 – OPERATOR SCREEN**
  - 5 – EDIT SCREEN**
    - 5A – TRAY SETUP**
  - 6 – COPY**
  - 7 – DELETE**
  - 8 – PASSWORDS**
  - 9 – ENGINEERING SETTINGS**
  - 10 – FAULT INFORMATION SCREENS**
- 11.0 - MAINTENANCE CHECK AND MAINTENANCE SCHEDULE
- 12.0 - SPARES AND SERVICE
- 13.0 - SPARES LIST
- 14.0 - ELECTRICAL INFORMATION

# 1.0 INTRODUCTION

Omega  
PLUS

- The innovative “five axis deposit” design of MONO’s “**Omega PLUS**” and “**Omega PLUS with wirecut**” depositor allows it to recreate most of the hand movements of the Master confectioner. This makes the “**Omega PLUS**” capable of exceptional accuracy of product weight, size and shape.
- Maintenance is kept to a minimum and the smooth body design makes daily cleaning quick and easy.
- Easy to use computer software gives access to 650 programs, which are stored in the memory and easily recalled for use or modification. Control is via a colour touch screen with graphically represented products, already installed, that can be created or edited to the required product.
- It is available with soft and hard dough hoppers. There is also a large selection of templates and nozzles.



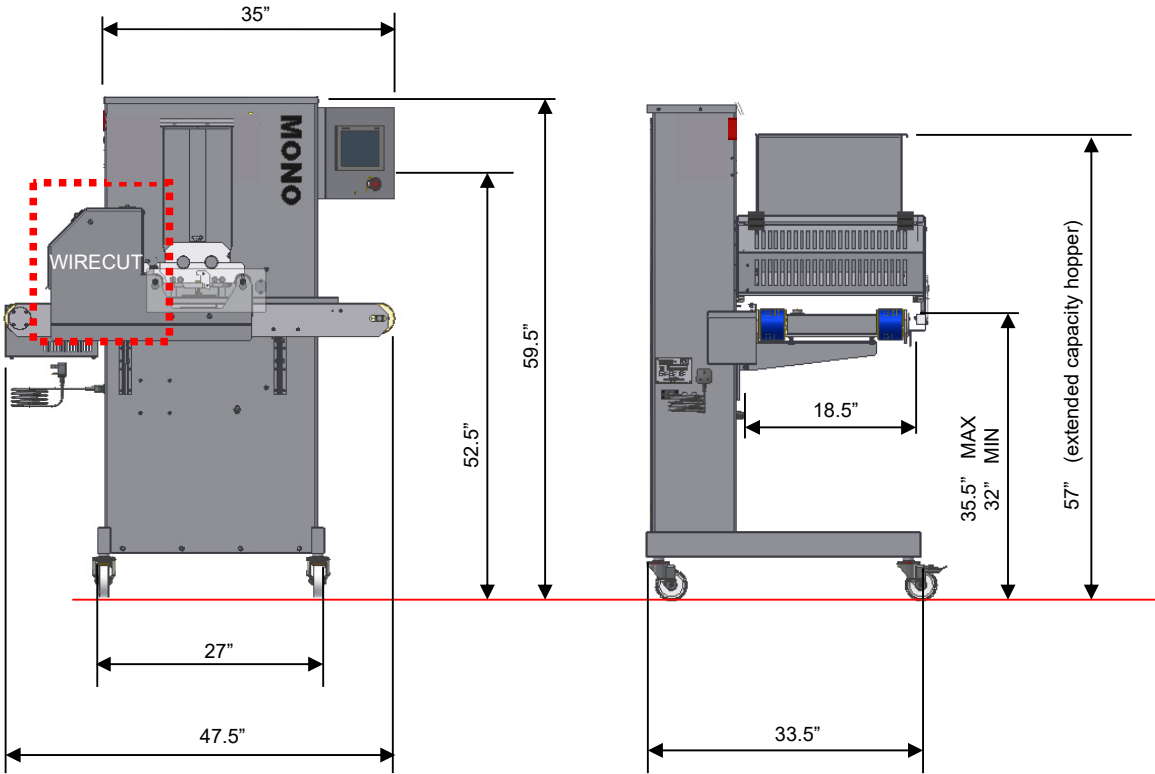
As it is our policy to improve our machines continuously, we reserve the right to change specifications without prior notice

MODELS ARE AVAILABLE WITH OR WITHOUT WIRECUT OPTION

# 2.0 DIMENSIONS



MODELS ARE AVAILABLE WITH OR WITHOUT WIRECUT OPTION



### 3.0 SPECIFICATIONS



	<u>SOFT DOUGH</u>		<u>HARD DOUGH</u>	
<b>MODEL</b> (Nom. hopper width (mm))	<b>400 (15.7")</b>	<b>450 (17.7")</b>	<b>400 (15.7")</b>	<b>450 (17.7")</b>
<b>Weight</b> (with hopper fitted) (kg) :	<b>196 (432.1lbs)</b>	<b>210 (462.9lbs)</b>	<b>216 (476.2lbs)</b>	<b>235 (518lbs)</b>
<b>Standard hopper Capacity</b> (litre) :	<b>20 (35 pints)</b>	<b>22.5 (39.5 pints)</b>	<b>21 (37 pints)</b>	<b>24 (42.2 pints)</b>
<b>Extended hopper Capacity</b> (litre) :	<b>36 (63.3 pints)</b>	<b>41 (72.2 pints)</b>	<b>31 (54.5 pints)</b>	<b>35 (61.5 pints)</b>
<b>Power:</b>	Singlephase,		6.7A, 0.8kW, <b>120V</b> ,60Hz	
			3.4A, 0.8kW, <b>208-240V</b> , 60Hz	
	With Wirecut		7.5A, 0.9kW, <b>120V</b> , 60Hz	
			3.75A, 0.9kW, <b>208-240V</b> , 60Hz	
Cycles per minute	= Up to 35			
Min distance between trays	= 50mm (1.9")			
Max vertical travel	= 80mm (3.1")			
Max program storage	= 650			
Number of languages	= 13 (additional in future)			
Noise level	= Less than 85dB			
Electronics	= All microprocessor controlled			

**NOTE:**

The minimum deposit that can be made depends on several factors - recipe, mixing method, template size, nozzle size and deposit speed.

As a guide the following is the minimum that should be attempted:

Macaroons	6g.
Meringues	3g.
Choux Paste	5g.
Viennese	4g.
Sponge Drops	4g.

However, consult **Mono Equipment** if intended product falls outside the above general machine specification to determine the exact capabilities of the "Omega" with any specific product.

*As it is our policy to improve our machines continuously, we reserve the right to change specifications without prior notice*



1 **Never use a machine in a faulty condition** and always report any damage.

2 **Only trained engineers** may remove parts that need a tool to remove them.



3 Always ensure hands are dry before touching any electrical appliance (including cable, switch and plug). **NEVER move machinery by pulling on the power cords or cables.**

4 **Ensure that the floor area around the OMEGA is clean to avoid slipping** – especially if carrying heavy hopper and template components to and from the machine.

5 **All operatives must be fully trained.**



Use of the machine can prove dangerous if:

- the machine is operated by **untrained or unskilled staff**
- the machine is not used for its **intended purpose**
- the machine is **not operated correctly**

**All safety devices applied to the machine during manufacture and the operating instructions in this manual are required to operate this machine safely. The owner and the operator are responsible for operating this machine safely.**

6 People undergoing training on the machine must be under **direct supervision**.

7 **Do not operate the machine with any panels or guards removed.**



They are there to protect you.

8 **No loose clothing or jewellery** should be worn while operating the machine.



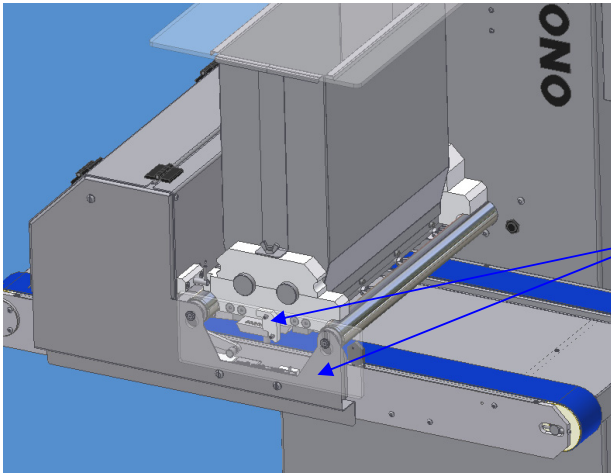
They could cause damage to the machine and person.

9 **Switch off power** at the mains isolator when machine is not in use and **before carrying out any cleaning or maintenance.**

- 10 The bakery manager or the bakery supervisor should carry out **daily safety checks** on the machine.



- 11 Do not operate machine without hopper **template and guard fitted correctly**.



**(11) HOPPER TEMPLATE AND  
GUARD FITTED**

**NOTE**

Guard can be plastic or metal depending on the machine model



- 2 Due to the essential requirement for handling heavy components during cleaning, it is recommended that **protective footwear** be worn when carrying out such procedures.

**ALL CLEANING AND MAINTENANCE OPERATIONS MUST  
BE MADE WITH THE MACHINE DISCONNECTED FROM  
THE POWER SUPPLY.**



## 5.0 INSTALLATION

---

Omega  
PLUS

### NOTES

- 1 Ensure that the depositor is connected to correct electric supply, as specified on the serial number plate on the side of the machine.
- 2 Ensure that the correct fuse rating is fitted in the electrical supply.

### POWER CABLE INSTALLATION

This unit is equipped with an SJT-type power cable. To ensure safe operation and maintain cable integrity, the cable must be installed so that it is kept above ground level. Avoid placing the cable directly on the floor or in areas where it may come into contact with water, oil, dirt, or other contaminants. Proper cable routing will help prevent damage and ensure reliable performance.

## 6.0 ISOLATION

Omega  
PLUS

 **IN AN EMERGENCY, SWITCH OFF AT THE ELECTRICAL MAINS WALL ISOLATOR, OR PUSH THE EMERGENCY STOP BUTTON.**

*To release the emergency stop button, turn clockwise.* 



## 7.0 CLEANING INSTRUCTIONS

Omega  
PLUS

### NOTE:



- Cleaning must be carried out by fully trained personnel only.
- Isolate machine from mains supply before carrying out any cleaning.
- Do not steam clean or use a jet of water.

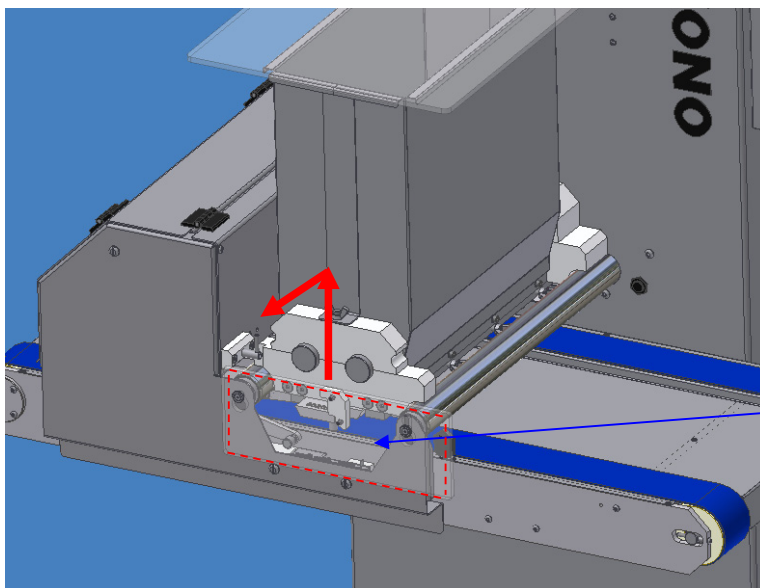
**-Do not use any form of caustic detergent or abrasive cleaners. -**

All the outer surfaces of the machine should be wiped over daily with warm soapy water.

### HARD AND SOFT DOUGH HOPPERS BETWEEN PRODUCT MIX CHANGES

*The feed hopper, pump assembly, template, nozzles etc. should be removed from the machine and dismantled for thorough cleaning between product mix changes.*

1. Open top safety guard and remove excess mixture remaining in the feed hopper.
2. Lift off front see-through safety cover.



SAFETY COVER

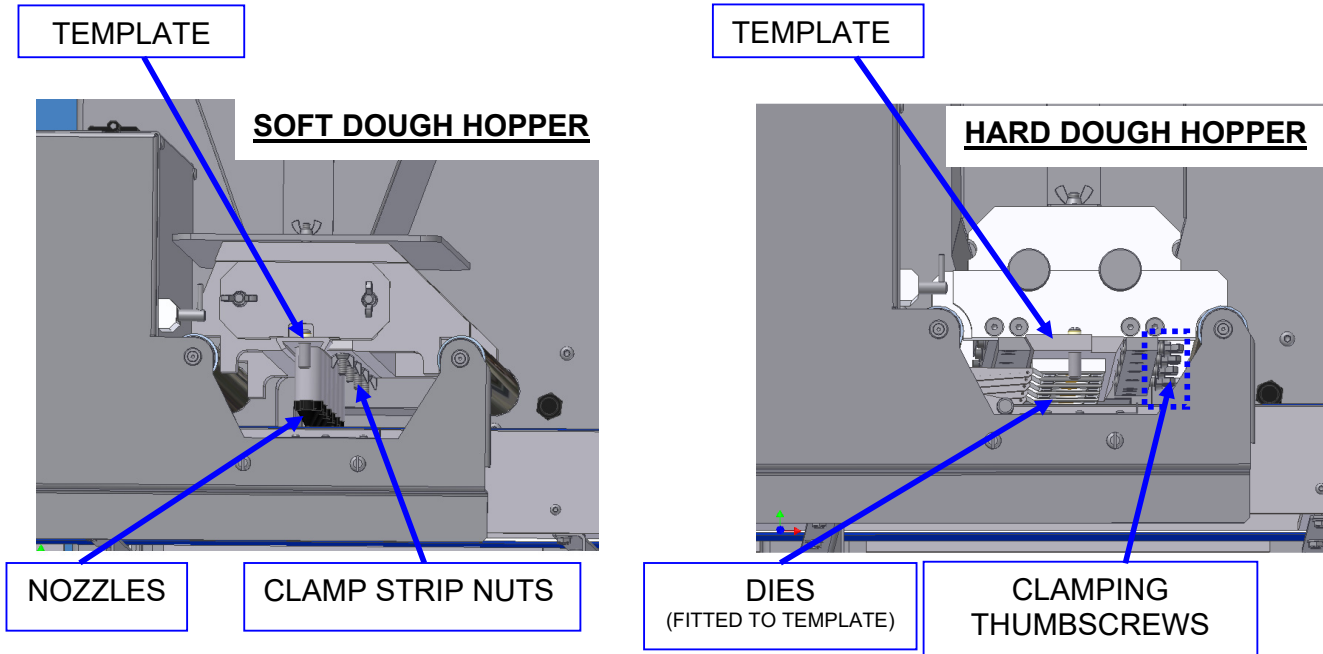
#### NOTE

Guard can be plastic or metal depending on the machine model

3. Slacken template clamp strip nuts or thumbscrews (depending on type of hopper)  
Remove fitted template from pump assembly by sliding out to avoid subsequent damage.

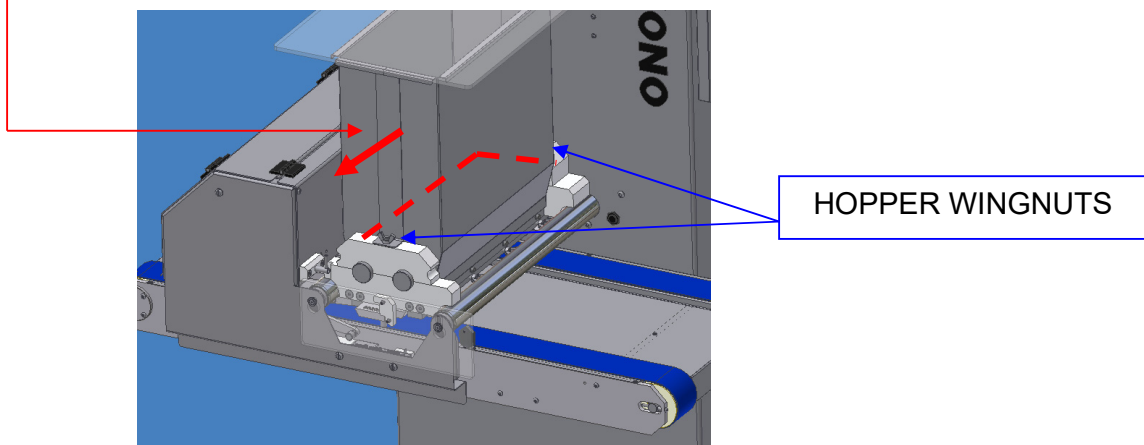
**NOTE.**

*Thumbscrews only need to be released slightly to allow the template to slide away from the pump assembly. If loosened too much, the template will have to be supported.*



- 4 To reduce weight and bulk, separate and remove empty feed hopper from pump assembly, whilst still on the machine, by unscrewing the wing nuts.

*To gain access to the inner wing nut, slide the complete hopper away from the machine body slightly (keep on support bars) - this will also disengage the pump assembly from the drive shaft.*



*Ensure that the nuts are placed where they will not be lost.*

# SOFT DOUGH HOPPER

Omega  
PLUS



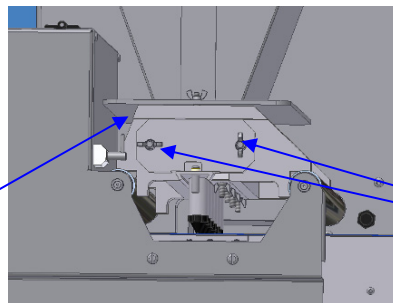
## **CAUTION:**

**The feed hopper and pump assembly exceeds 55lbs and will need to be lifted off by two people, or dismantled into smaller components while still on the machine.**

Take care to avoid damage to the sealing surface of the feed hopper during removal, cleaning, assembly and storage.

1. After removing the feed hopper, check condition of feed hopper seal.
2. Unscrew the end cap retaining nuts from the accessible side of the pump assembly.  
*[Ensure that the nuts are placed where they will not be lost.]*

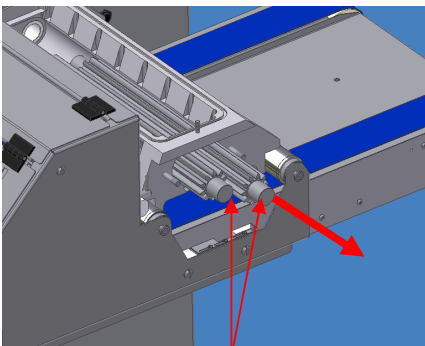
FEED HOPPER  
SEALING SURFACE



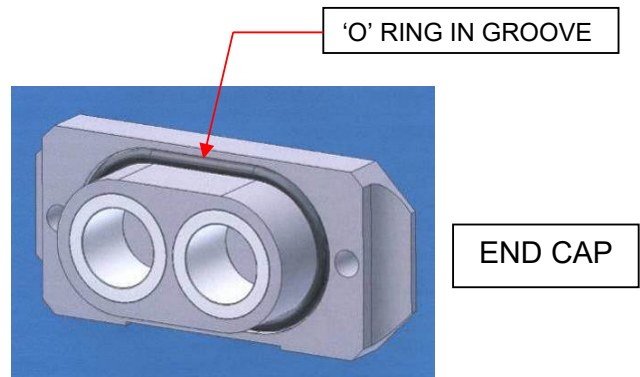
ENDCAP NUTS

3. Withdraw the end-cap with the pump gears.

*Ensure that the 'O' sealing ring on the inside of the end cap is not damaged during cleaning.*



PUMP GEARS  
REMOVE WITH END CAP  
(NOT SHOWN)



END CAP

4. Remove remainder of pump assembly from the machine and remove remaining end-cap to fully dismantle pump assembly components for cleaning.

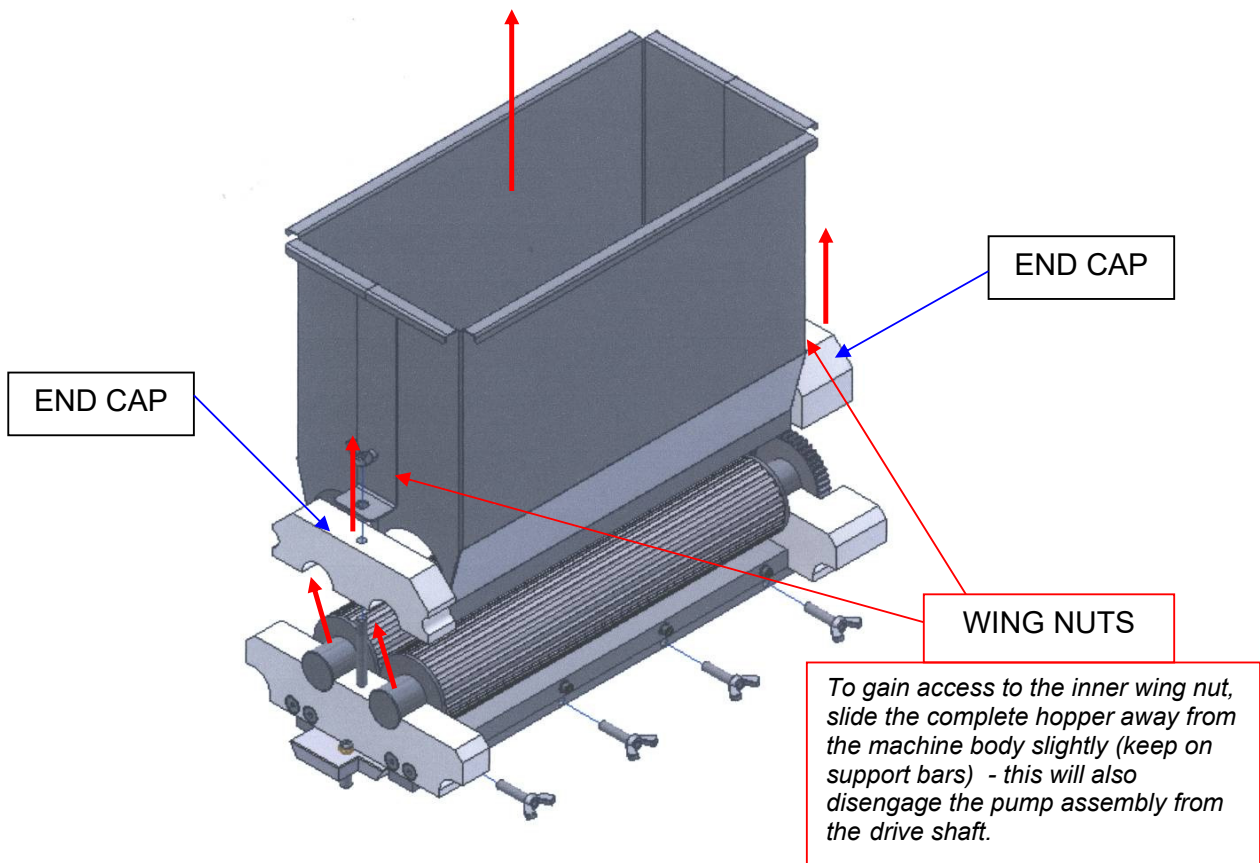
# HARD DOUGH HOPPER



**CAUTION:**  
The feed hopper and pump assembly exceeds 55lbs and will need to be lifted off by two people, or dismantled into smaller components while still on the machine.

To reduce weight and bulk, separate and remove empty feed hopper from pump assembly, whilst still on the machine, by unscrewing the wing nuts.  
(Ensure that the nuts are placed where they will not be lost.)  
The pump assembly will now be lighter and more easily removed.

1. Lift off both upper plastic end-caps.
2. Remove both gears from the assembly, one at a time, by lifting vertically.
3. Remove remainder of pump assembly from the machine for cleaning.



**NOTE:**

**Use only warm soapy water to clean these parts. They should be rinsed and thoroughly dried before re-assembly.**  
**The greatest care must be taken not to drop any parts.**



**Do not leave any components in the hopper.**



## 8.0 OPERATING CONDITIONS

Omega  
PLUS

To obtain the best product results and consistent operation,

- ✓ Make sure the depositor is used on a **level floor**.
- ✓ Ensure **flat trays** of consistent length, width, material and edge dimensions are used.
- ✓ Ensure **undamaged nozzles and templates** are used.
- ✓ Keep the machine **clean**.



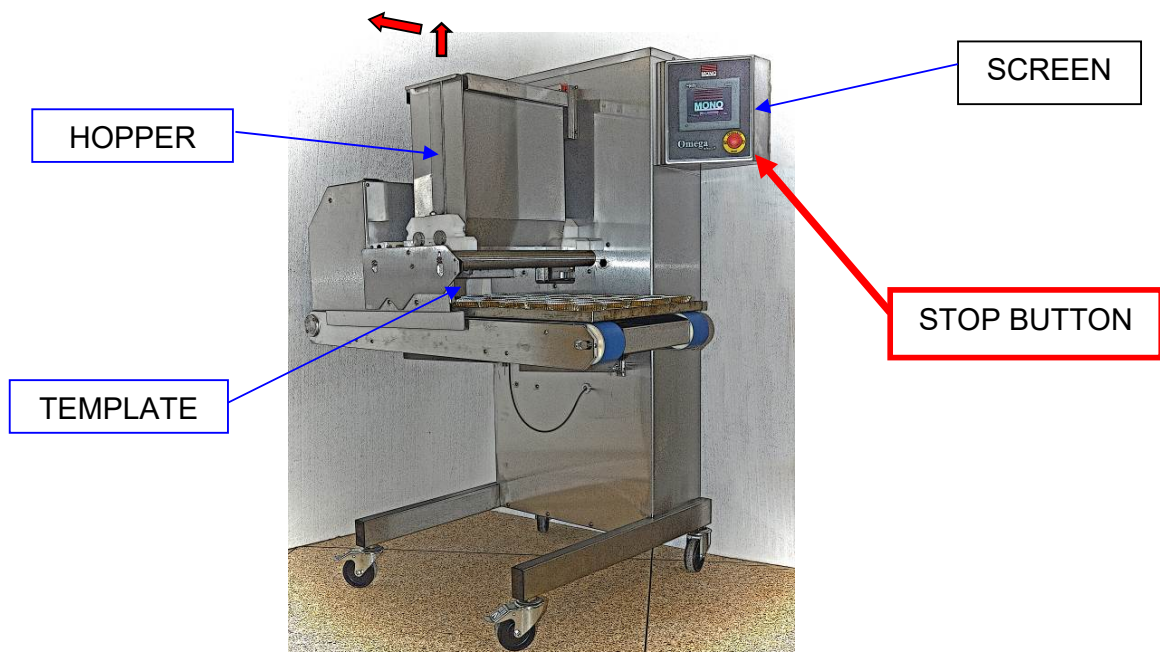
## 9.0 PREPARING FOR OPERATION

Omega  
PLUS

**The use of templates and/or accessories not produced or supplied by MONO Equipment will invalidate the machine's warranty**

- 1 Select template and nozzles (and finger frame, if wirecut is to be used) and fit as section 9a & 9b (following pages). Fill hopper with mix and close hopper cover.

*It is recommended that when heavy mixes are used, the inside of the hopper should be coated with vegetable oil; for lighter mixes such as meringue, dampen with water. The oil or water will help the mix to settle down the hopper walls and prevent air being sucked in.*



- 2 Connect power cable to electrical supply.  
*Make sure stop button is in released position (turn clockwise if required).*
- 3 Select an existing program or create a new program through the on-screen menus.  
(see section 10 operation)
- 4 The machine is now ready for operation.

9a FITTING THE HOPPER

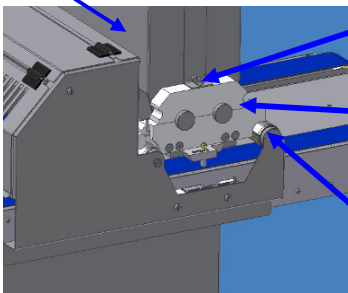
**CAUTION SHOULD BE TAKEN WHEN FITTING THE HOPPER AND PUMP ASSEMBLY, AS WEIGHT EXCEEDS 55lbs ON SOME MODELS**  
It will need to be lifted on by two people, or dismantled into smaller components before fitting on the machine.  
**MAKE SURE THE FLOOR AREA AROUND THE MACHINE IS CLEAN**



To reduce weight and bulk, fit the complete hopper assembly in two stages - first the pump assembly onto the support bars, then the feed hopper body onto the pump assembly.

- 1 By hand, align pump assembly drive gear roller with drive shaft on machine.
- 2 Fit hopper to pump assembly and secure with wing nuts.
- 3 Slide hopper on support bars until fully up against machine.

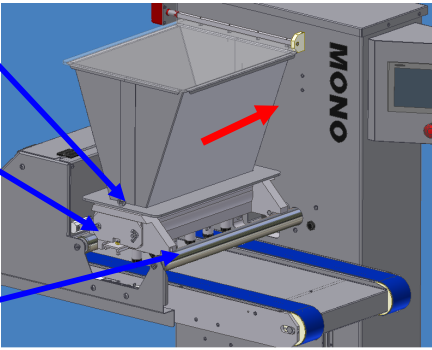
FEED HOPPER



FEED HOPPER WING NUTS (EACH END)

PUMP ASSEMBLY

SUPPORT BARS



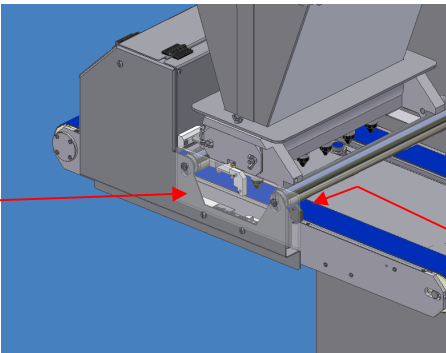
**HARD DOUGH**

**SOFT DOUGH**

- 4 After the hopper is fitted, the safety cover **MUST BE** replaced with the reflector facing towards the machine body.

SAFETY COVER

NOTE  
Guard can be plastic or metal depending on the machine model



REFLECTOR



**DO NOT OPERATE MACHINE WITHOUT TEMPLATE FITTED**

# 9b FITTING A TEMPLATE

- **Soft dough**

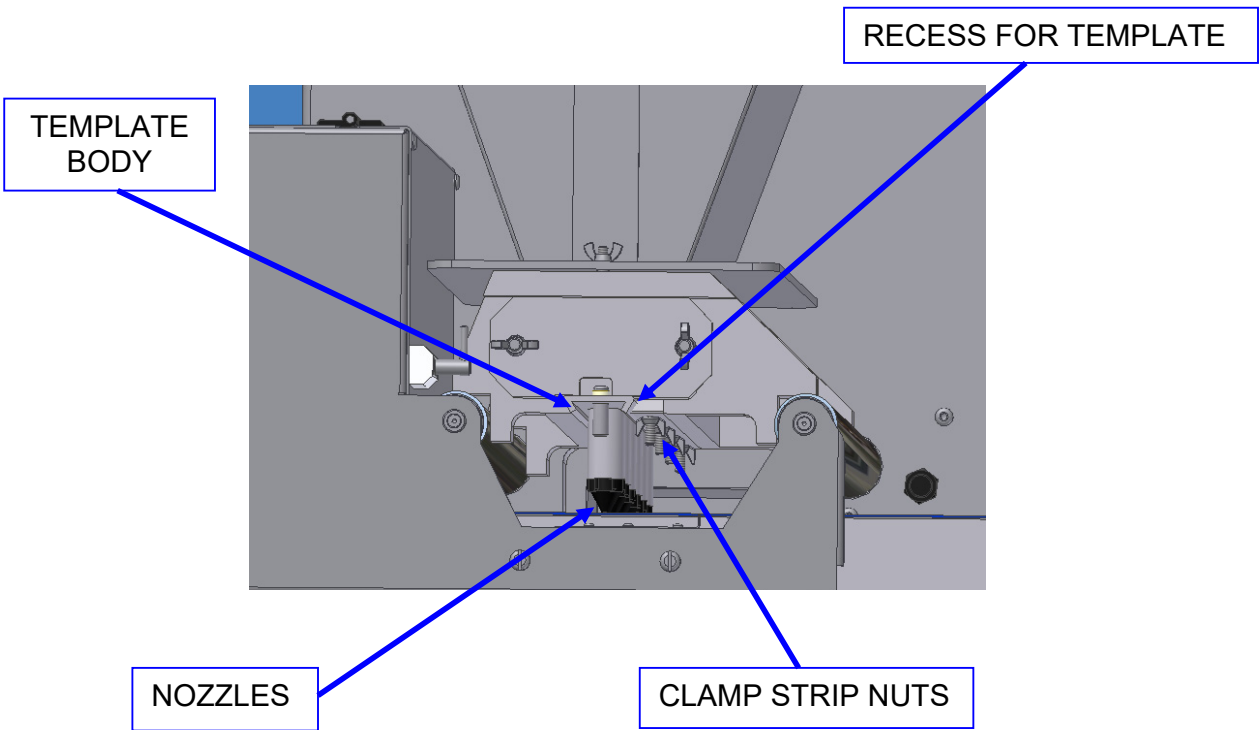
Non-rotary templates can be fitted with nozzles. This requires screwing the nozzles into the threaded holes provided.

Rotary templates can have plastic nozzles screwed into nozzle holders (straight or offset).

OR

Metal nozzles secured in place by a separate nut.

- 1 Select template and nozzles required.  
*(Nozzles are not required for sheeting, staggered or stub templates)*
- 2 Attach nozzles to template body:



- 3 Slide the template into the matching recess at the base of the pump assembly until the stop is in position.
- 4 Tighten the nuts on the clamp strip (on underside of pump assembly) to secure template.

**NOTE.** *If the nuts are not securely tightened, leakage of mix will occur, affecting deposit weights.*

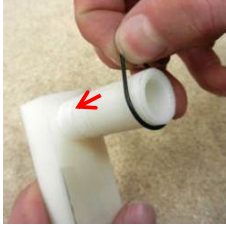


**DO NOT OPERATE MACHINE WITHOUT TEMPLATE FITTED**

# **BEFORE USING STRAIGHT & OFFSET NOZZLE HOLDERS** **“O” RINGS MUST BE FITTED**

Nozzle holders provide the means of attaching standard plastic nozzles to the soft dough rotary templates and the sealing rings need to be fitted before using and may need replacing occasionally to ensure correct operation.

“O” RING PART NUMBER = A900-12-010 (SUPPLIED IN BAGS OF 20)



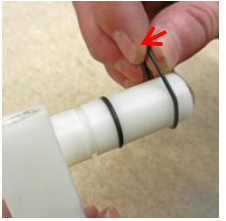
LOOP FIRST RING OVER END



SLIDE RING DOWN TO GROOVE



FIRST RING IN CORRECT POSITION



LOOP SECOND RING OVER END



SLIDE RING DOWN TO SECOND GROOVE,  
PASSING OVER FIRST RING



SECOND RING IN CORRECT POSITION

## • Hard dough

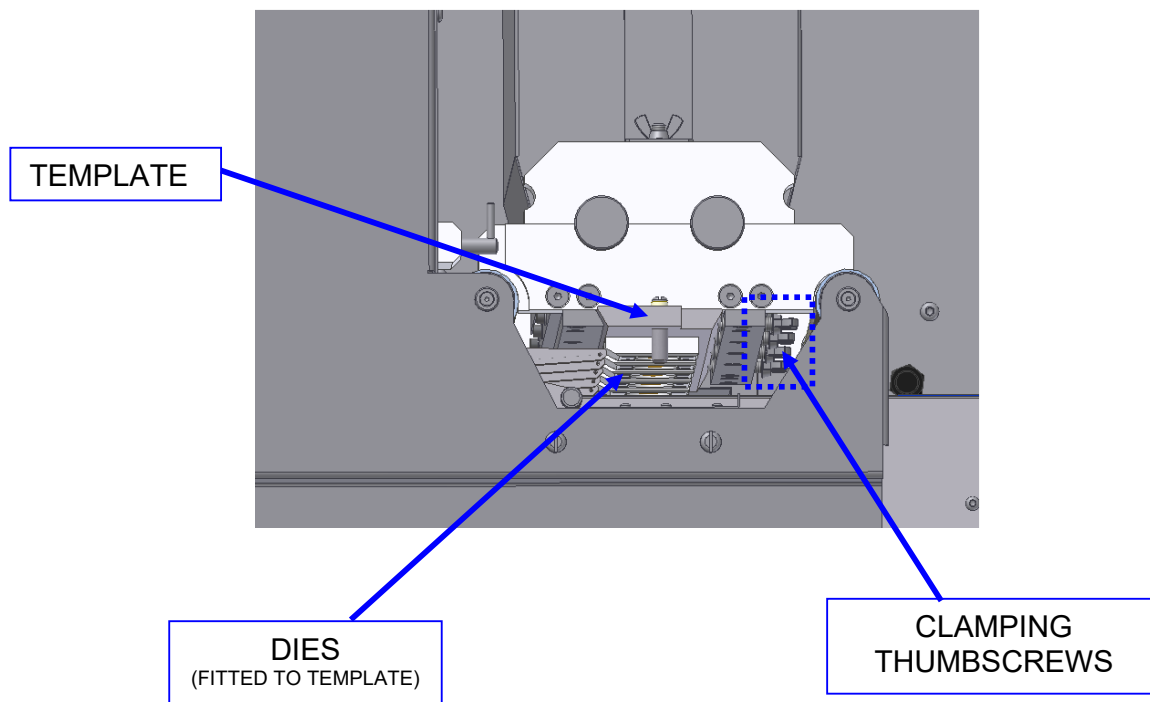
Non-rotary templates that can be fitted with nozzles require them to be secured in place with a separate nut. Nozzles are not required for sheeting or wirecut templates.

Rotary templates require nozzles to be secured in place with a separate nut.

- 1 Select wirecut template or template and nozzles required.
- 2 Attach nozzles (if required) to template body using special nut:
- 3 Slide template into position and hand-tighten thumbscrews.

### **NOTE.**

*Thumbscrews only need to be released slightly to allow the template to slide away from the pump assembly. If loosened too much the template will have to be supported while the screws are tightened.*

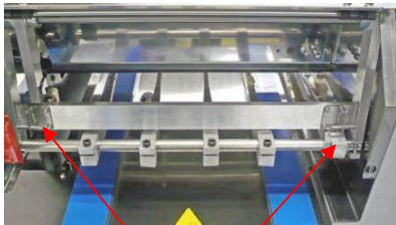


**DO NOT OPERATE MACHINE WITHOUT TEMPLATE FITTED**

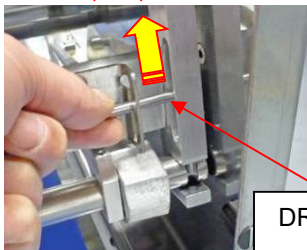
## IF WIRECUT FITTED

### FITTING WIRECUT FINGERS

1. Select wirecut fingers that suit the chosen template to be used.i.e. the correct number to match the number of dies across template.
2. Remove drop arm pins and insert finger frame into arms. Ensure that the follower arm roller is positioned on the cam track.

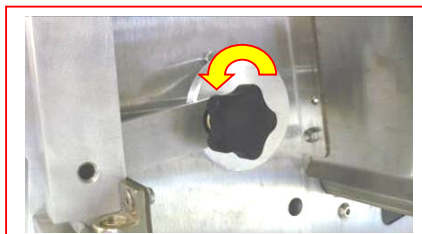


FOLLOWER ARM ROLLER



DROP ARM PINS

3. Replace drop arm pins.
4. Disconnect motor release knob and push fingers forward in order to line up the wire with the dies.

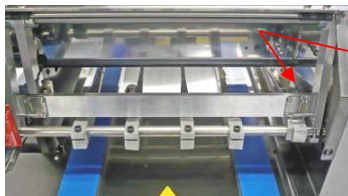


MOTOR RELEASE KNOB



FINGER ADJUSTING BOLTS

5. Adjust individual finger bolts to raise the wire to touch the bottom surface of the dies used in the template.
- OR
- Adjust the spring loaded screw to raise or lower all fingers at the same time.



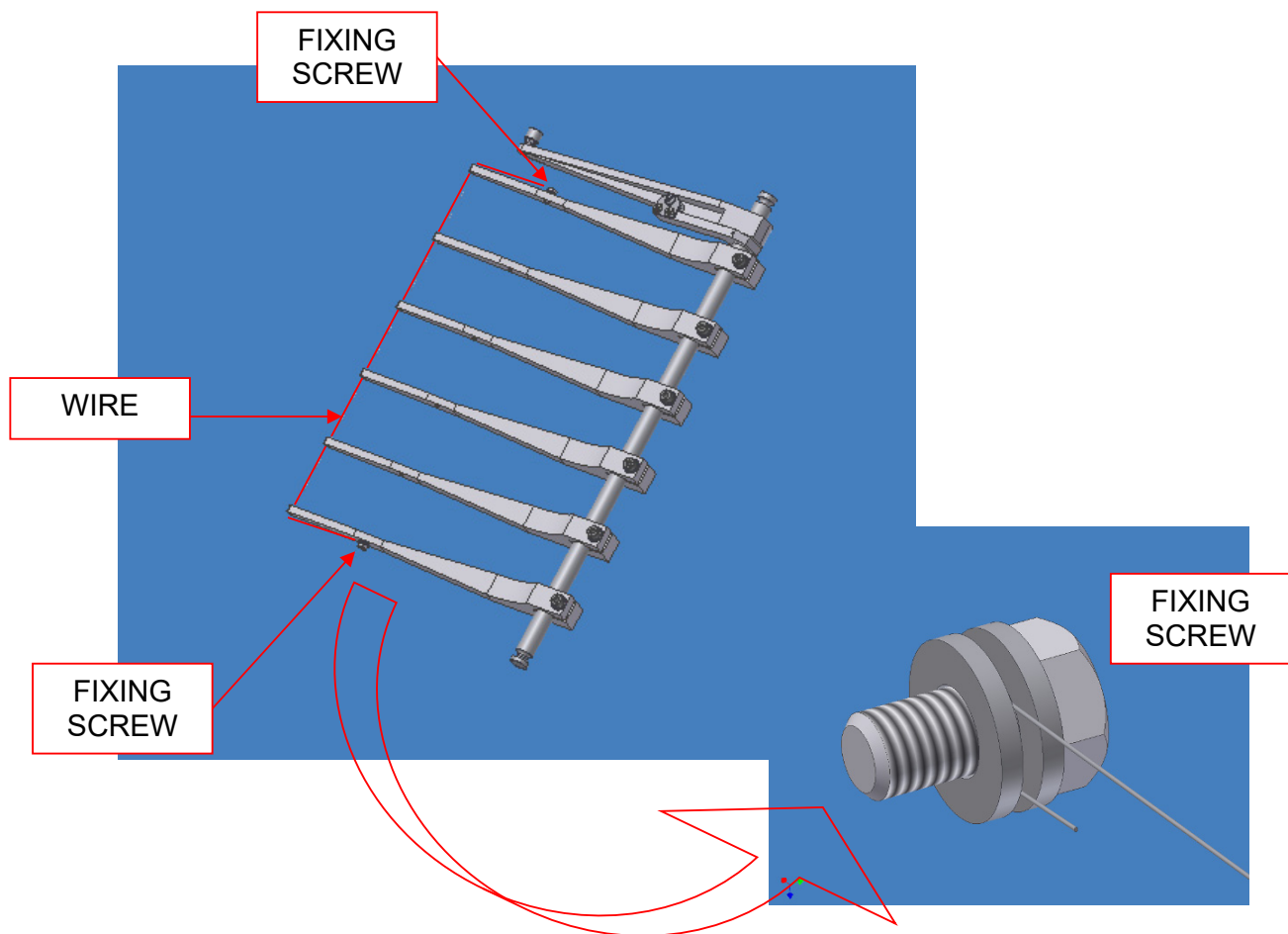
SPRING LOADED ADJUSTMENT SCREW

## IF WIRECUT FITTED

### REPLACING BROKEN WIRE

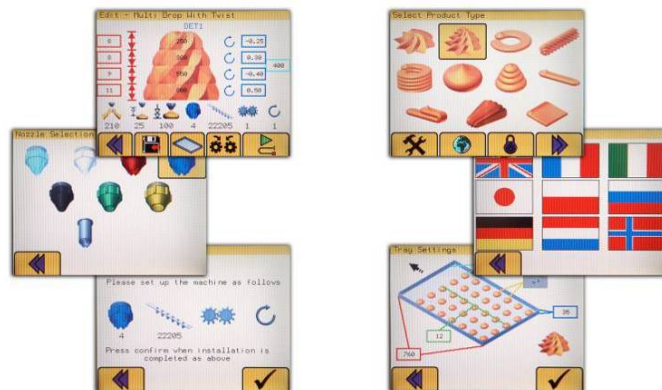
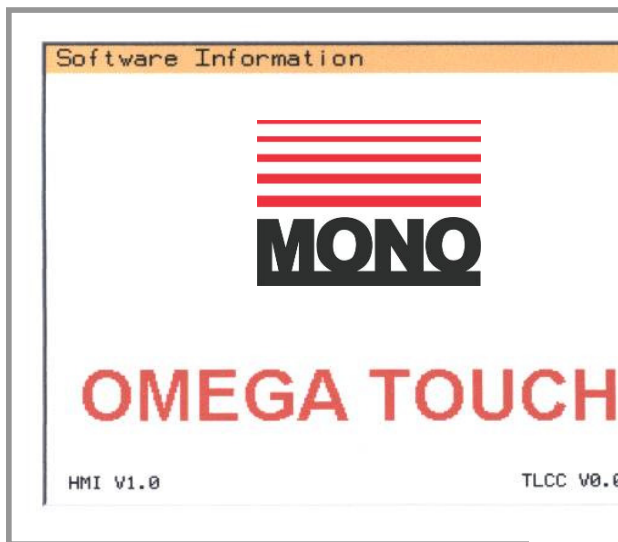
MAKE SURE THAT ALL PIECES OF WIRE HAVE BEEN FOUND BEFORE OPERATING MACHINE AFTER A WIRE REPLACEMENT.

1. Remove fingers from the machine.
2. Remove broken wire
3. Feed new wire round screw between washers and tighten screw.
4. Feed the wire through the eyehole in the end of each finger.
5. Feed new wire round other screw between washers. Pull tight and tighten screw. (wire should be like a guitar string).
6. Replace the fingers back in the machine and check set up and operation.



# 10.0 'OMEGA PLUS' OPERATION

Omega  
PLUS



ALL OPERATIONS ARE ACTIVATED BY TOUCHING AREAS ON THE SCREEN WITH A FINGER.  
DO NOT USE EXCESSIVE FORCE OR HARD OBJECTS AS THIS WILL INVALIDATE MACHINE WARRANTY.

# OPERATING KEY FOR FOLLOWING INSTRUCTIONS

**BLUE = OPERATION**

FOLLOW BLUE ARROWS AND BOXES TO OPERATE THE DEPOSITOR WITH ALREADY SAVED PROGRAMS

**RED = CHANGE SETTINGS**

FOLLOW RED ARROWS AND BOXES TO CHANGE SETTINGS AND CREATE NEW PROGRAMS

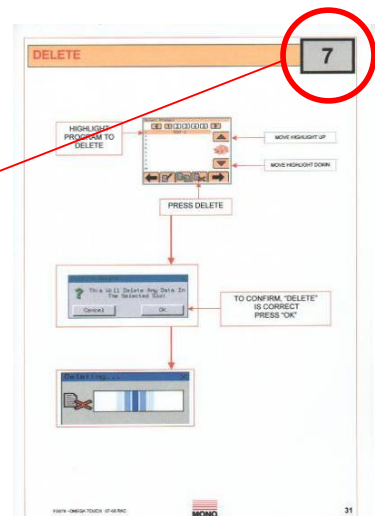
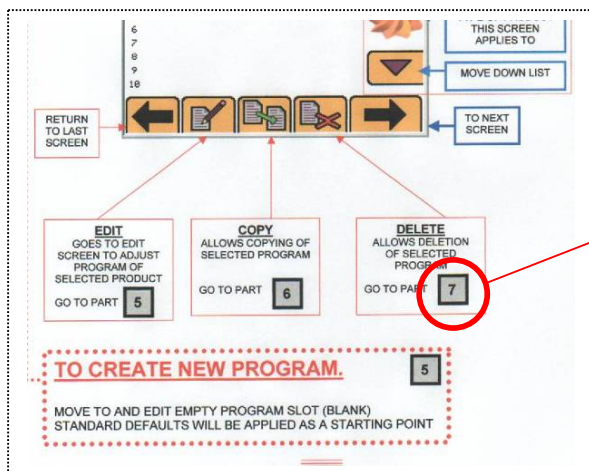


**= KEYBOARD ENTRY REQUIRED**

WHEN KEYBOARD APPEARS, A CODE MUST BE ENTERED BY TOUCHING THE NUMBERS IN THE CORRECT ORDER

IF A GREY BOX IS SHOWN IN THE BUTTON DESCRIPTION  
e.g. **7** GO TO THE CORRESPONDING PAGE FURTHER  
ON IN THE INSTRUCTIONS.

(MARKED IN TOP RIGHT HAND CORNER OF EACH PAGE)



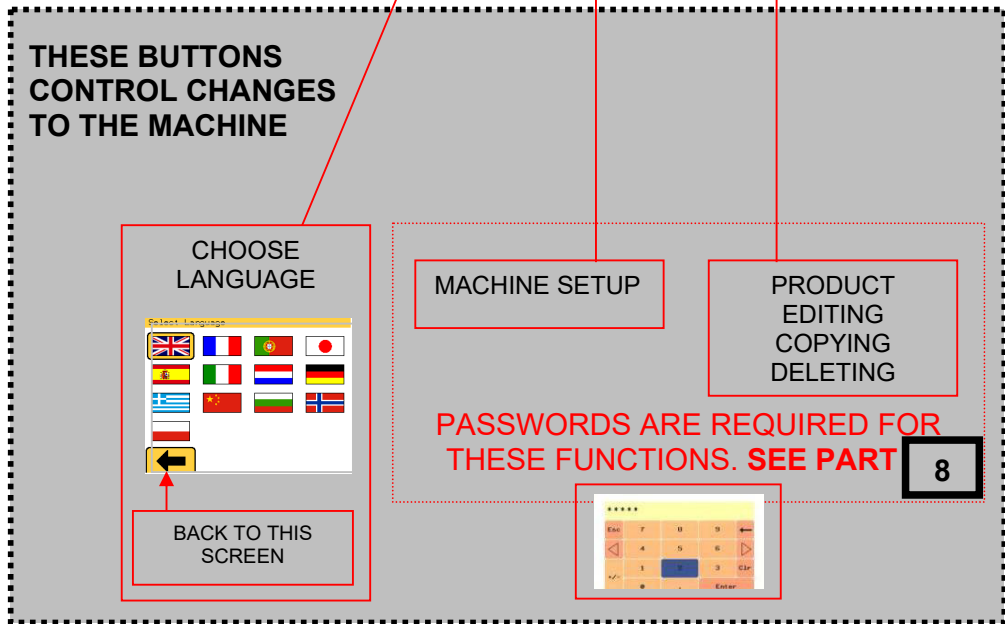
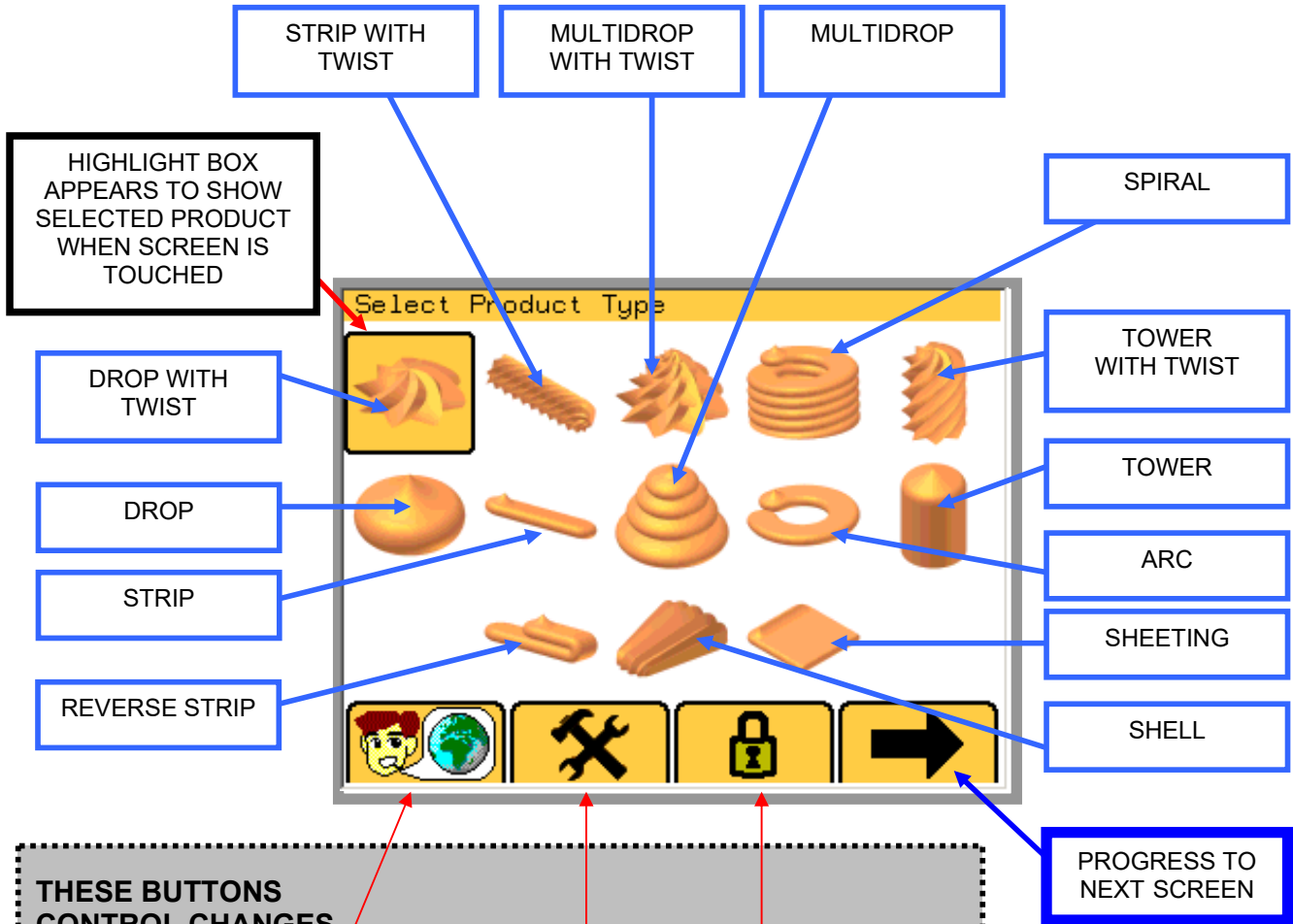
# SELECT PRODUCT TYPE

1

SELECT PRODUCT TO DEPOSIT OR TO CREATE A NEW PROGRAM

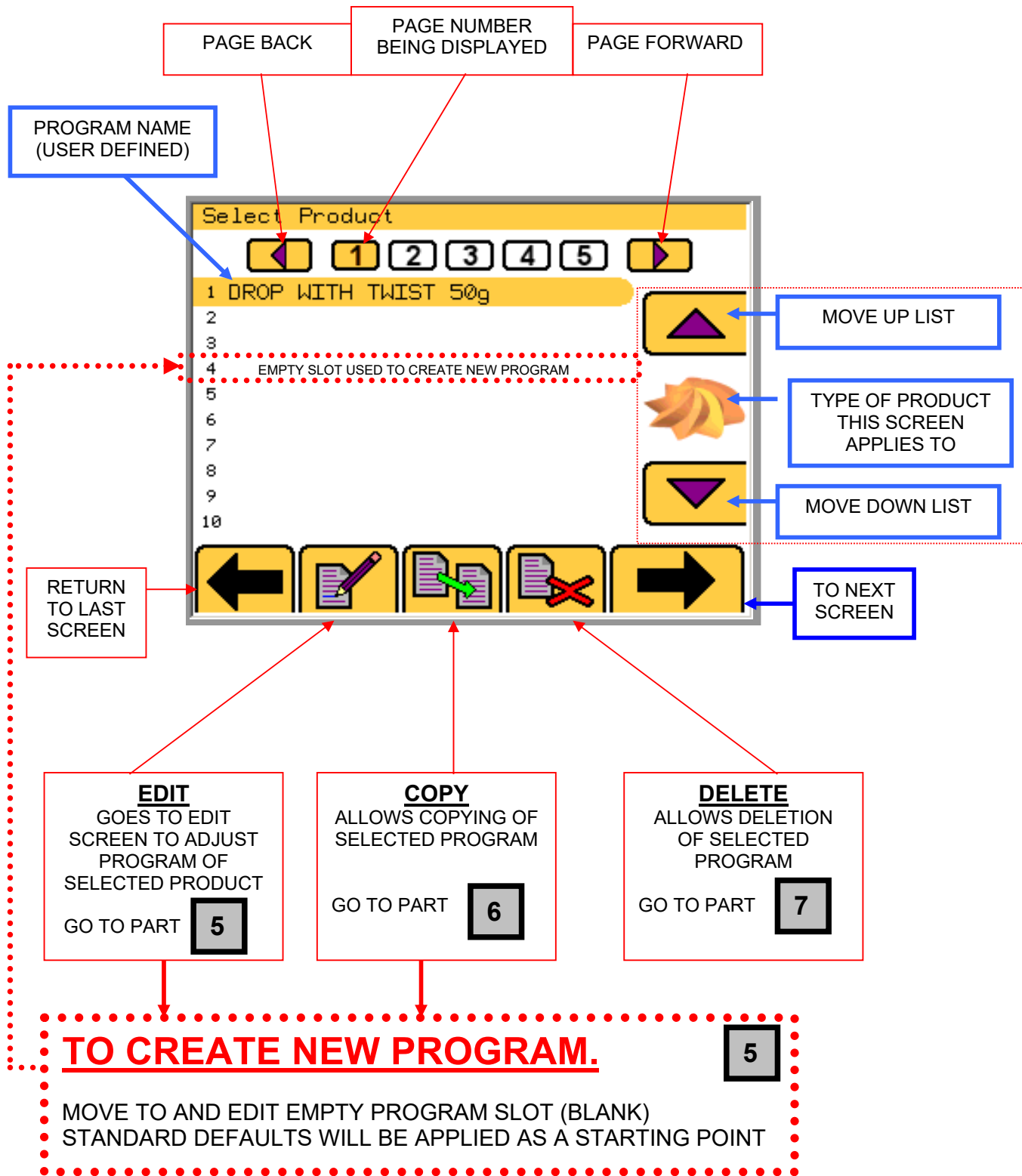
ALL OPERATIONS ARE ACTIVATED BY TOUCHING AREAS ON THE SCREEN WITH A FINGER.  
DO NOT USE EXCESSIVE FORCE OR HARD OBJECTS AS THIS WILL INVALIDATE MACHINE WARRANTY.

TOUCH THE SCREEN FOR THE TYPE OF PRODUCT REQUIRED  
THEN → TO MOVE TO THE NEXT SCREEN



# SELECT SAVED PRODUCT TYPE

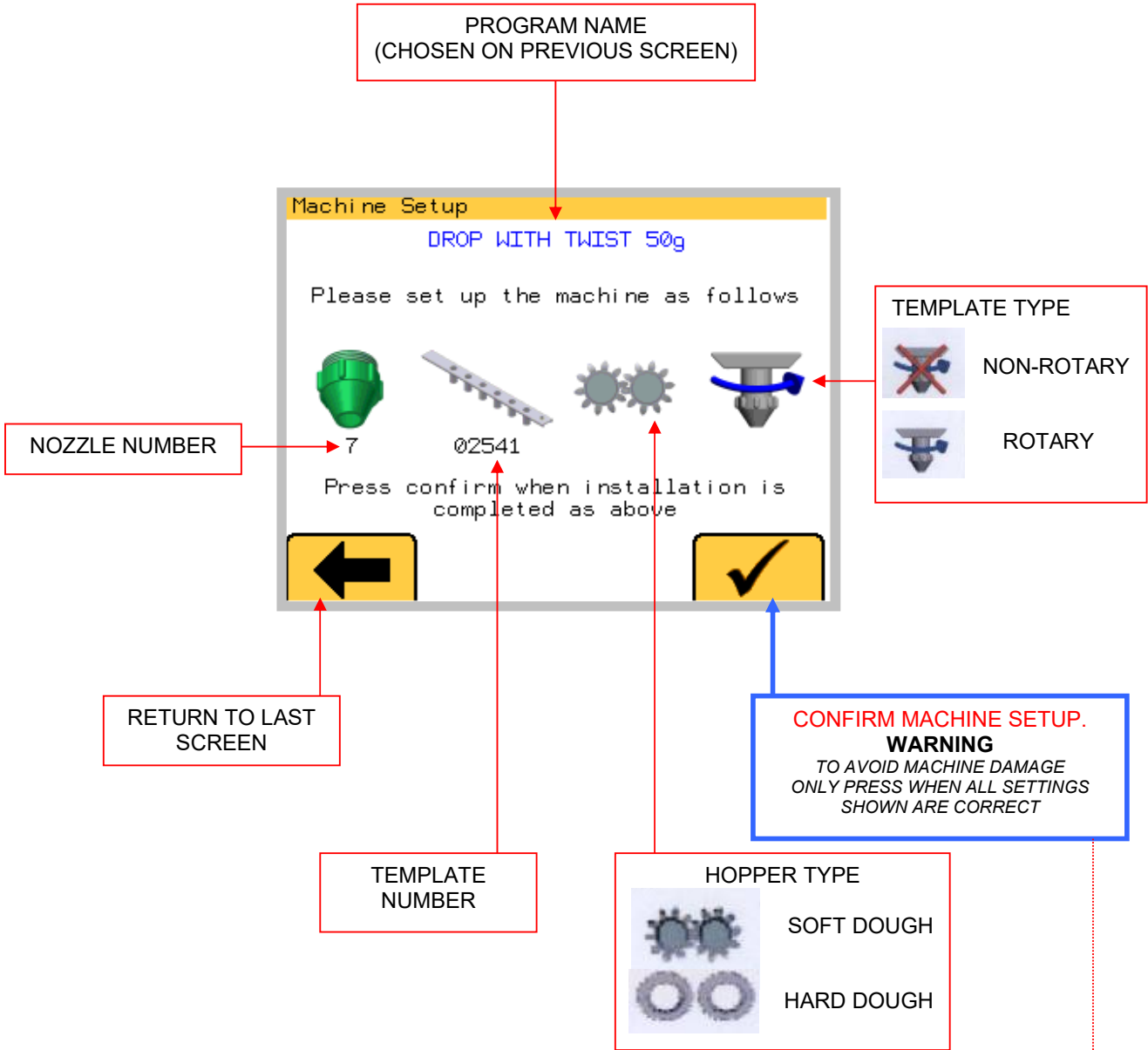
OR CHOOSE EMPTY SLOT TO CREATE A NEW PROGRAM



# CONFIRM SETUP OF MACHINE

3

MACHINE MUST BE SET AS SHOWN ON THE SCREEN.  
THEN PRESS CONFIRM BUTTON.

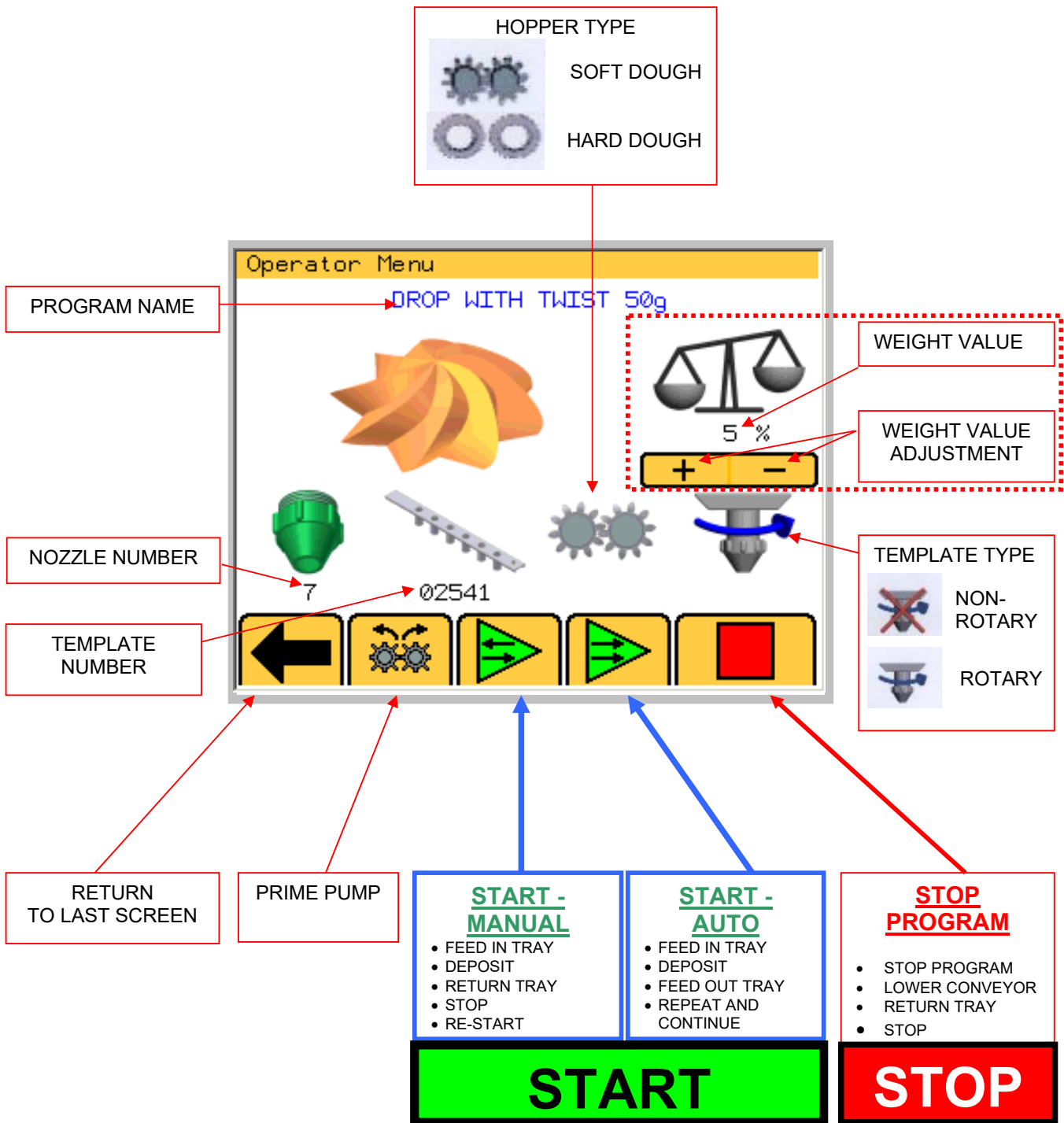


**TO AVOID MACHINE DAMAGE**  
**ONLY PRESS CONFIRM BUTTON WHEN ALL PARTS ATTACHED TO THE MACHINE**  
**ARE AS SHOWN ON THE SCREEN**

# OPERATOR SCREEN

4

MACHINE IS SET AS SHOWN ON THE SCREEN.  
THIS SCREEN CONTROLS THE ACTIONS REQUIRED BY THE OPERATOR.



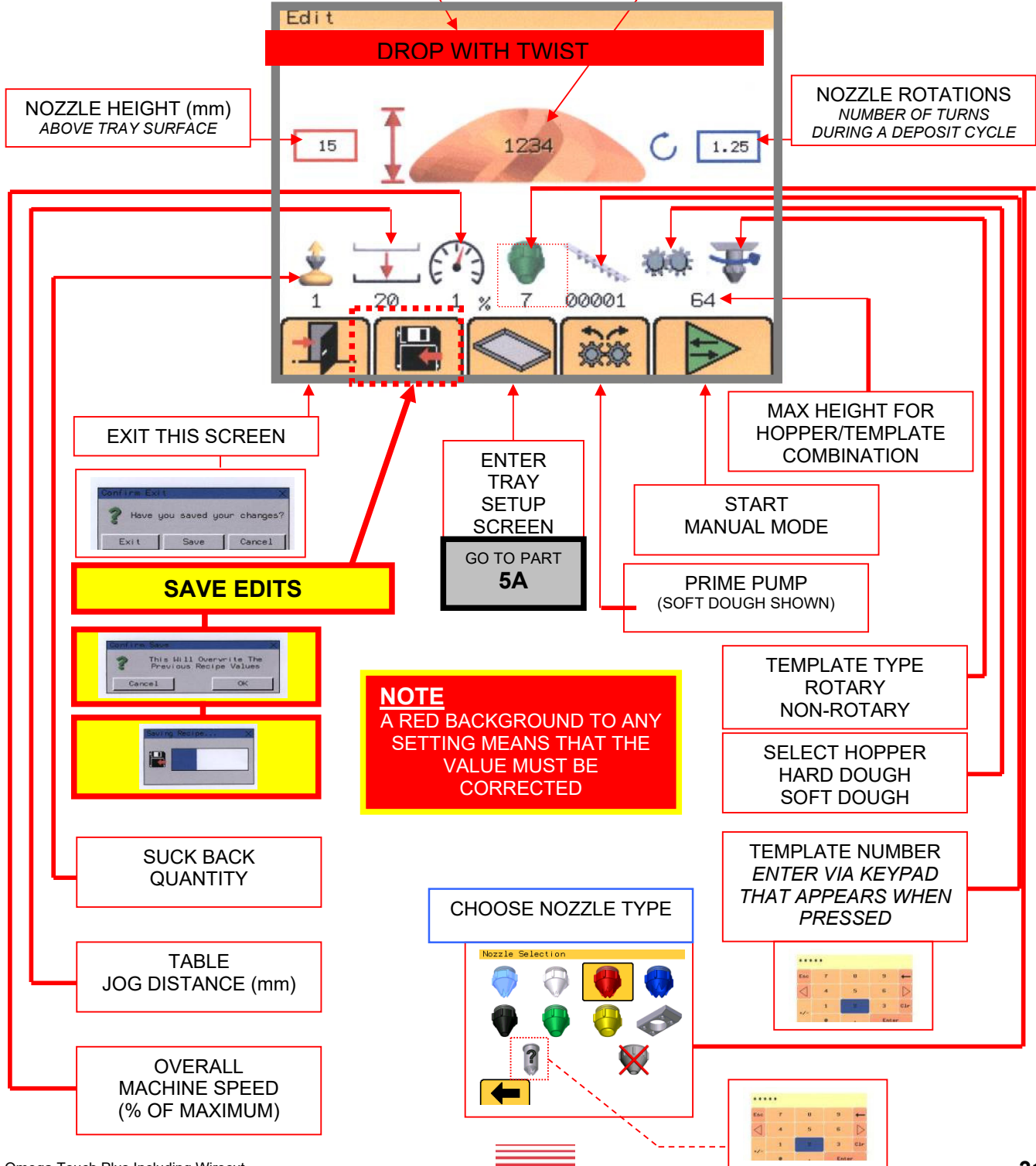
# EDIT AND SAVE SCREEN

5

**EXAMPLE:  
DROP WITH  
TWIST**

PROGRAM NAME  
MUST BE ENTERED TO  
ALLOW PROGRAM TO SAVE

PRODUCT QUANTITY  
THIS IS A SETTING NUMBER AND  
DOES NOT INDICATE A MEASURE OF  
ACTUAL VOLUME



**EXAMPLE:  
MULTIDROP WITH  
TWIST**

DEPOSIT QUANTITY FOR EACH LAYER

SETTING ERROR INDICATOR  
BOXES TURN RED WHEN INCORRECT SETTING MADE

NOZZLE HEIGHT (mm) FOR EACH LAYER

NOZZLE HEIGHT (mm) FROM TRAY SURFACE

NUMBER OF TURNS FOR EACH LAYER (-VE VALUES POSSIBLE)

OTHER SETTING BUTTONS ARE THE SAME AS LAST PAGE

PRIME PUMP (HARD DOUGH SHOWN)

**EXAMPLE:  
SHEETING / STRIP**

DEPOSIT QUANTITY FOR BEGINNING OF PRODUCT

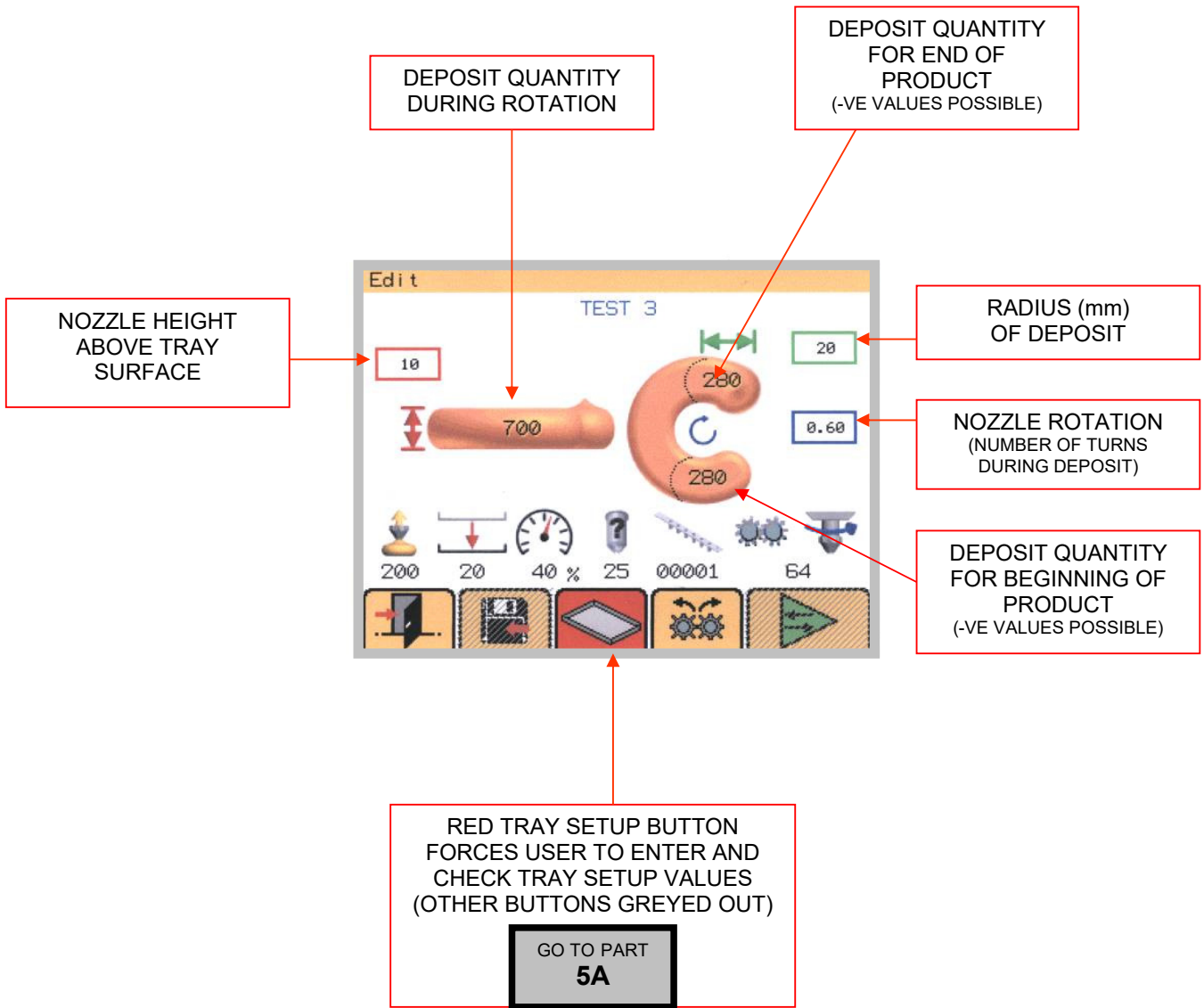
DEPOSIT QUANTITY FOR LENGTH

DEPOSIT QUANTITY FOR END OF PRODUCT (-VE VALUES POSSIBLE)

NOZZLE HEIGHT ABOVE TRAY SURFACE

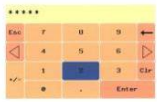
LENGTH (mm) OF TRAY MOVEMENT

**EXAMPLE:  
"C" SHAPE  
(ARC)**

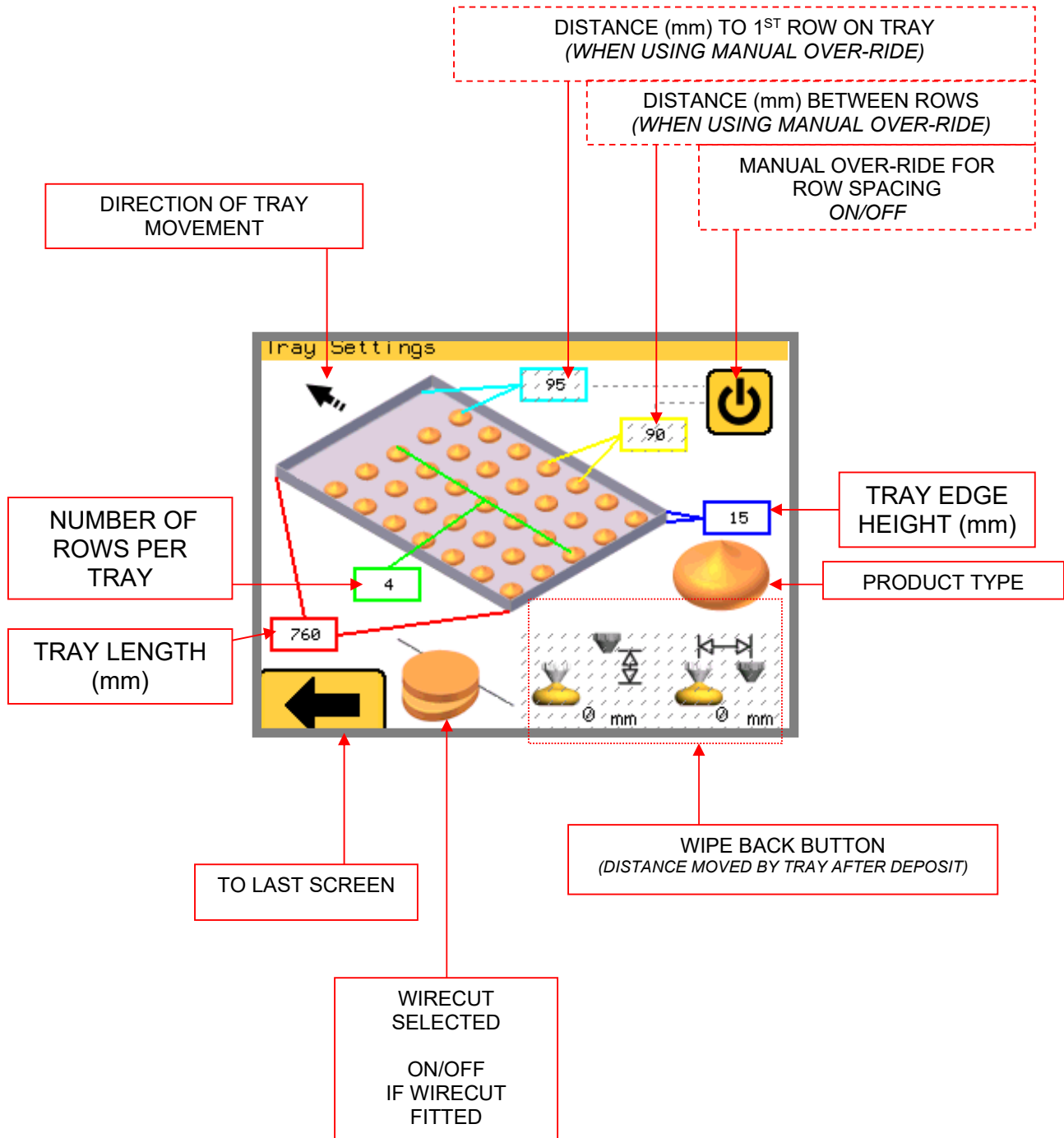


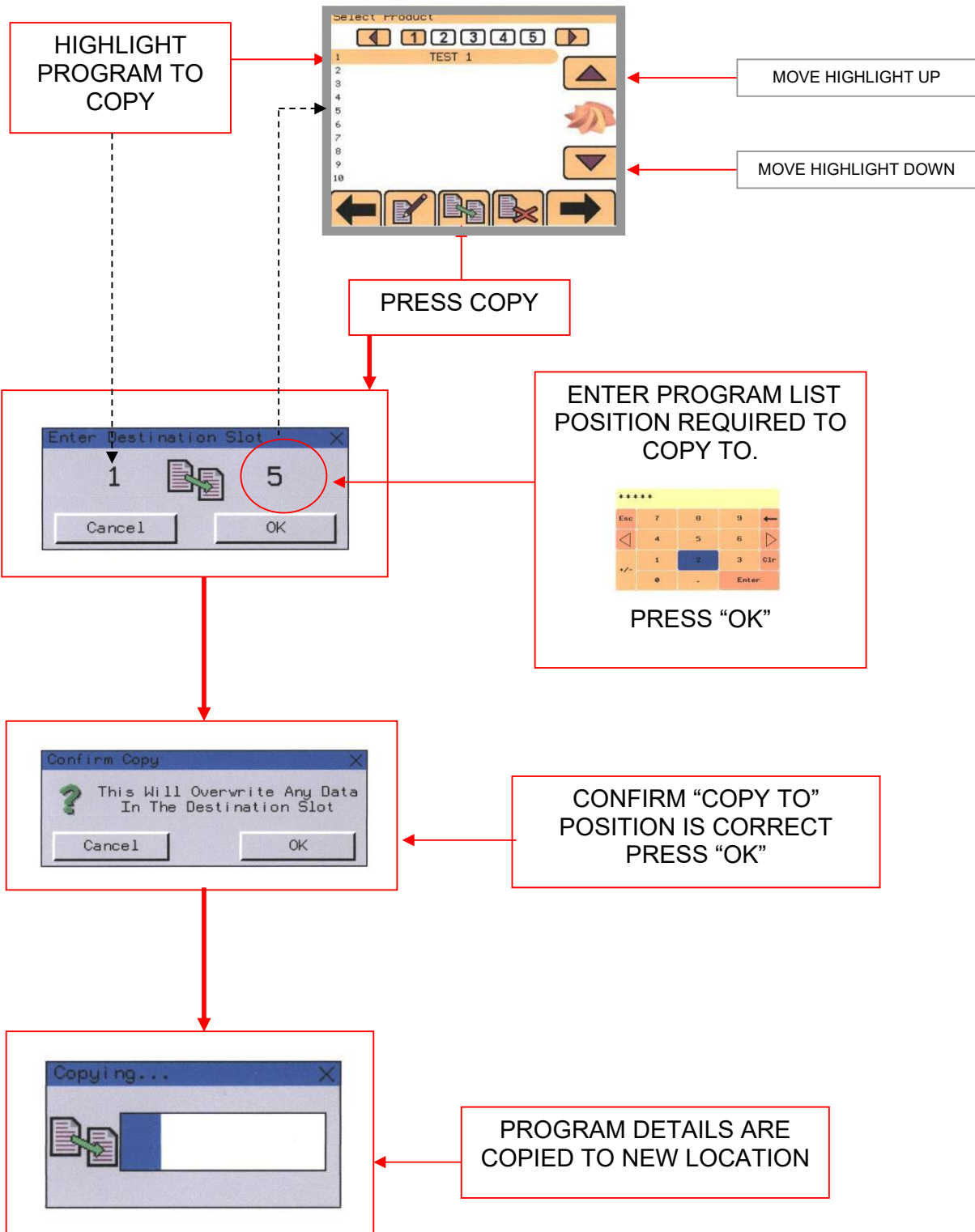
# TRAY SETUP

# 5A



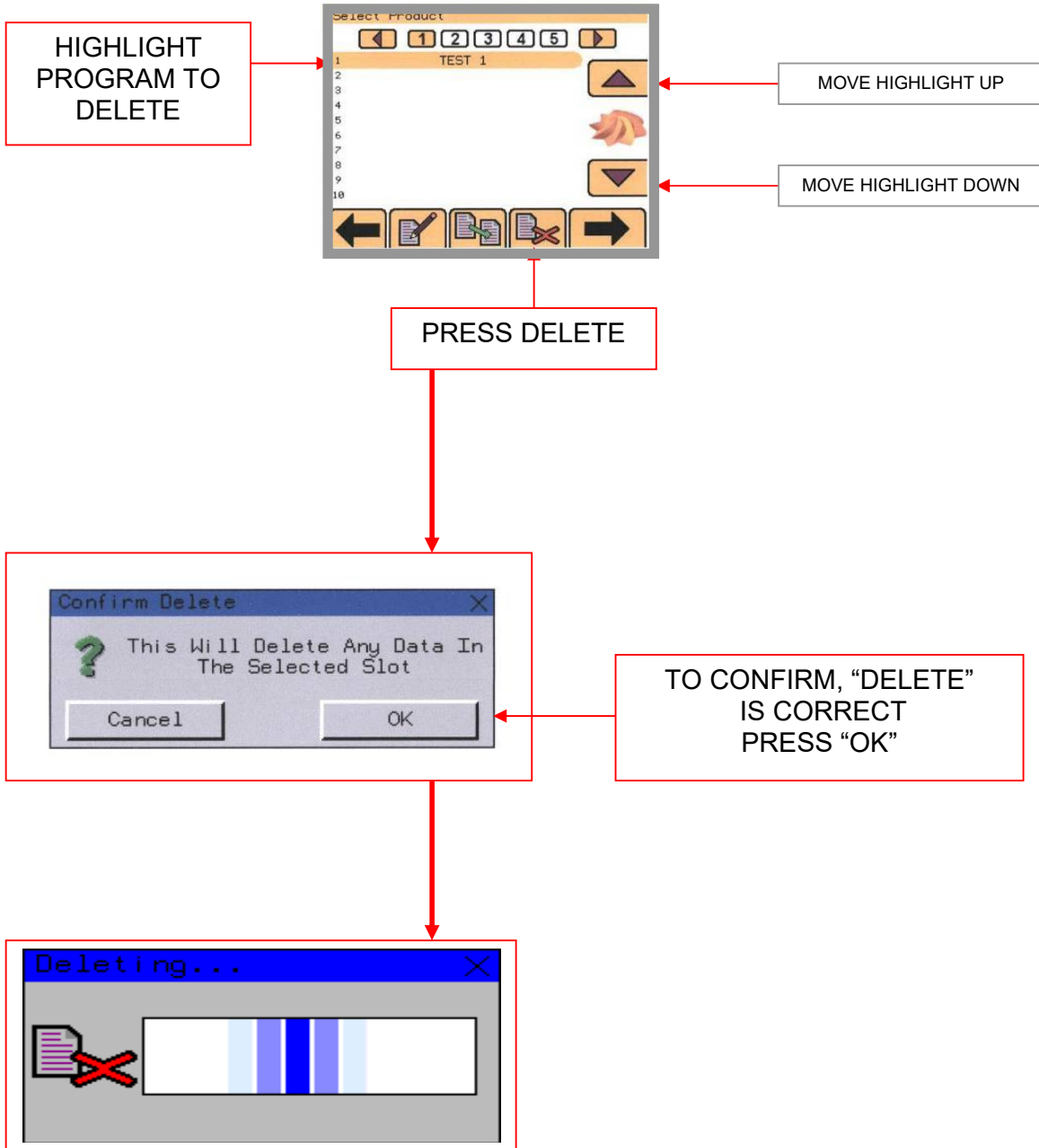
PRESS WINDOWS AND ENTER VALUES VIA KEYPAD





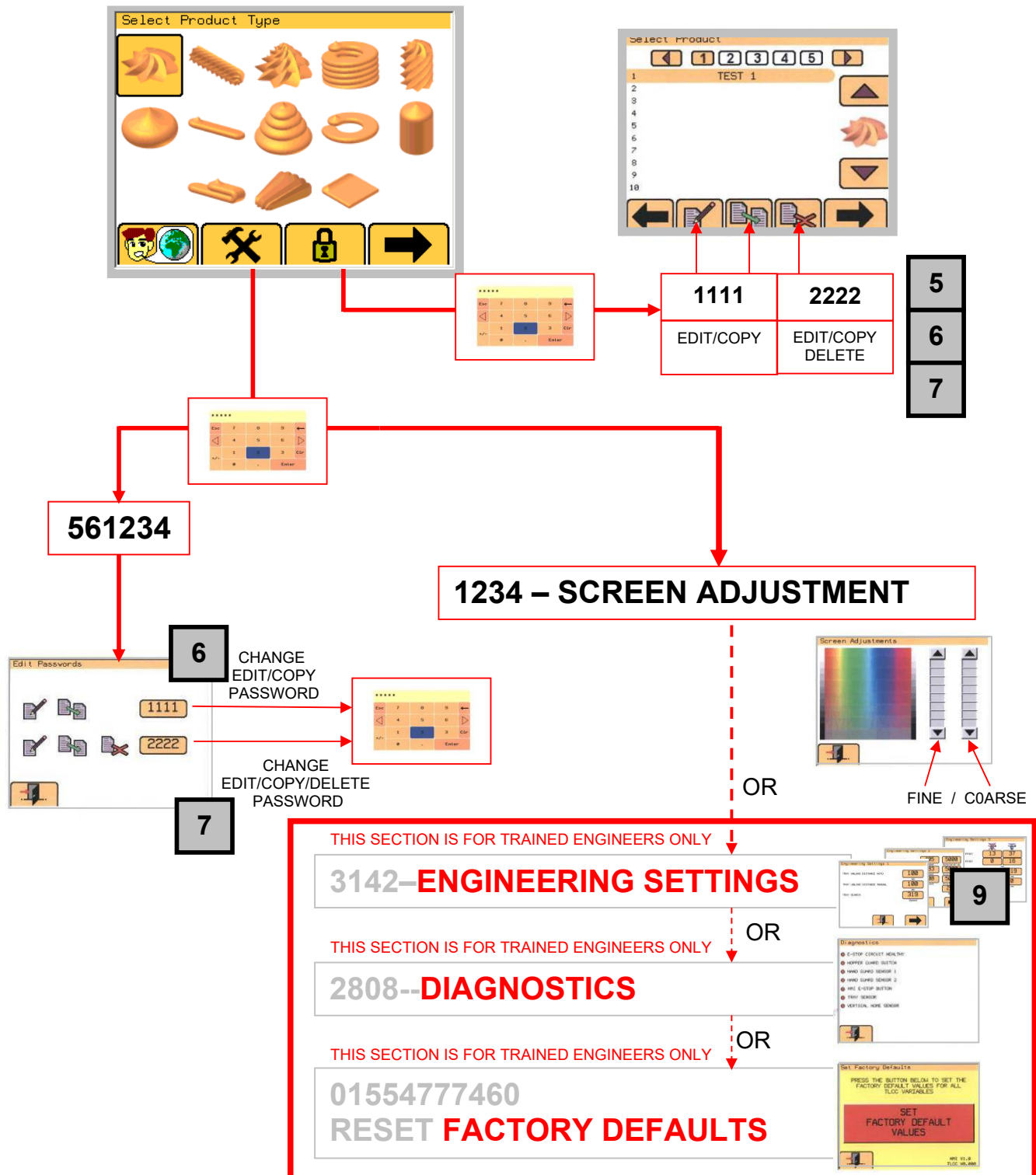
# DELETE

7



## CAUTION

**DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS**



# ENGINEERING SETTINGS (1)

9 / 1

THIS SECTION IS FOR TRAINED ENGINEERS ONLY

The screenshot shows the 'Engineering Settings 1' screen. It features two main settings: 'TRAY UNLOAD DISTANCE MANUAL' set to 100 MM and 'TRAY SEARCH' set to 319 Speed. At the bottom, there are two buttons: one with a tray icon and a red arrow pointing left, and another with a black arrow pointing right. Two callout boxes with red borders and arrows point to the numerical values. The top callout box explains that the 100 MM value is the distance the leading edge of the tray is brought back past the tray sensor when returning to operator. The bottom callout box explains that the 319 Speed value is the speed that the tray is fed up to the tray sensor. Two small inset images show a numeric keypad with the '100' and '319' values being entered.

IN MANUAL MODE:  
DISTANCE THE LEADING EDGE  
OF THE TRAY IS BROUGHT BACK  
PASSED THE TRAY SENSOR, WHEN  
RETURNING TO OPERATOR

TRAY UNLOAD DISTANCE MANUAL  
100  
MM

TRAY SEARCH  
319  
Speed

SPEED VALUE THAT TRAY IS  
FED UP TO TRAY SENSOR

EXIT  
THIS SCREEN

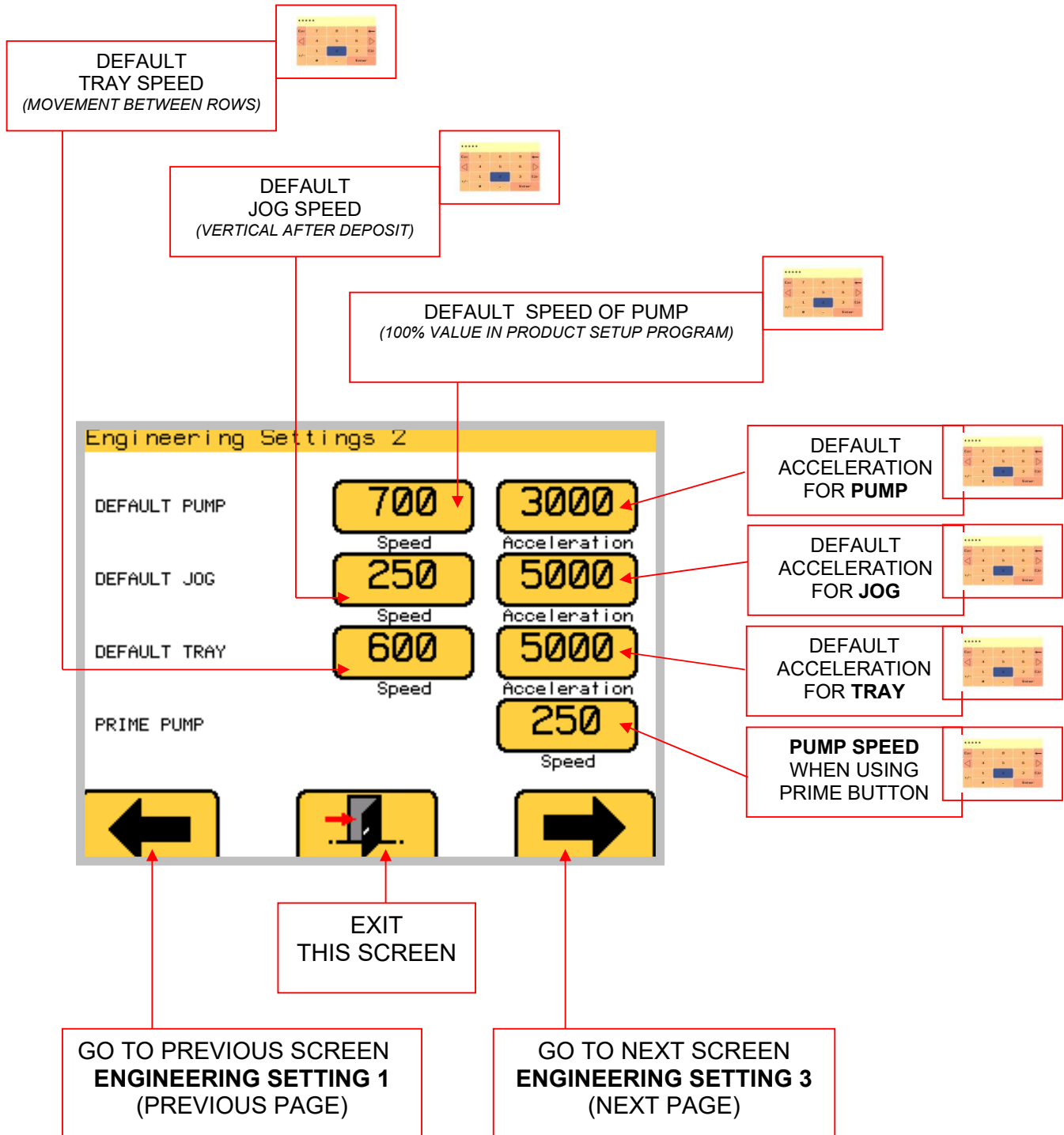
GO TO NEXT SCREEN  
ENGINEERING SETTING 2  
(NEXT PAGE)

## **CAUTION**

**DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS**

# ENGINEERING SETTINGS (2)

THIS SECTION IS FOR TRAINED ENGINEERS ONLY



## **CAUTION**

**DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS**

# ENGINEERING SETTINGS (3)

9 / 3

THIS SECTION IS FOR TRAINED ENGINEERS ONLY

OFFSET HEIGHT VALUE (mm)  
**HARD DOUGH HOPPER  
NON-ROTARY TEMPLATE**

**OFFSET HEIGHT VALUE IS  
FACTORY SET AND SHOULD NOT  
BE CHANGED UNLESS  
INSTRUCTED TO DO SO.  
DAMAGE TO THE MACHINE  
COULD OCCUR**

OFFSET HEIGHT VALUE (mm)  
**HARD DOUGH HOPPER  
ROTARY TEMPLATE**

OFFSET HEIGHT VALUE (mm)  
**SOFT DOUGH HOPPER  
ROTARY TEMPLATE**

OFFSET HEIGHT VALUE (mm)  
**SOFT DOUGH HOPPER  
NON-ROTARY TEMPLATE**

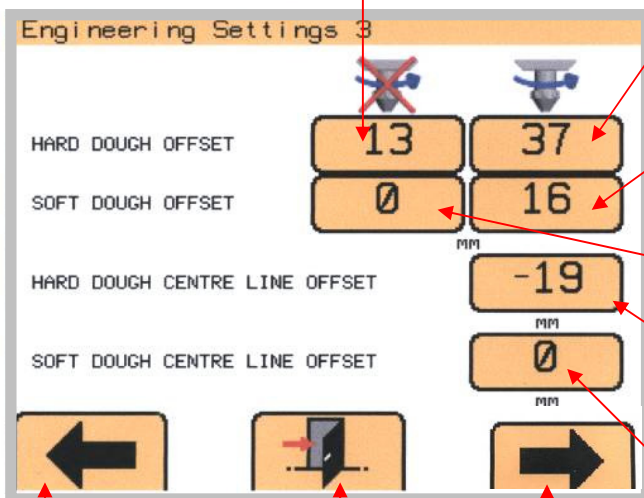
DISTANCE (mm) FROM **HARD**  
DOUGH HOPPER DEPOSITING  
CENTRELINE TO TRAY EDGE  
DETECTION POINT  
(USED IN ROW SPACING CALCULATIONS)

DISTANCE (mm) FROM **SOFT**  
DOUGH HOPPER DEPOSITING  
CENTRELINE TO TRAY EDGE  
DETECTION POINT  
(USED IN ROW SPACING CALCULATIONS)

EXIT  
THIS SCREEN

GO TO PREVIOUS SCREEN  
**ENGINEERING SETTING 2**  
(PREVIOUS PAGE)

GO TO NEXT SCREEN  
**ENGINEERING SETTING 4**  
(NEXT PAGE)



## **CAUTION**

**DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS**

THIS SECTION IS FOR TRAINED ENGINEERS ONLY

## GEARBOX RATIOS

The screenshot displays the 'Engineering Settings 4' screen with the following data:

Setting	Value 1	Value 2
PUMP GEARBOX RATIO	10	1
TRAY GEARBOX RATIO	10	1
JOG GEARBOX RATIO	15	1
ROTARY GEARBOX RATIO	10	1

Navigation and Label Callouts:

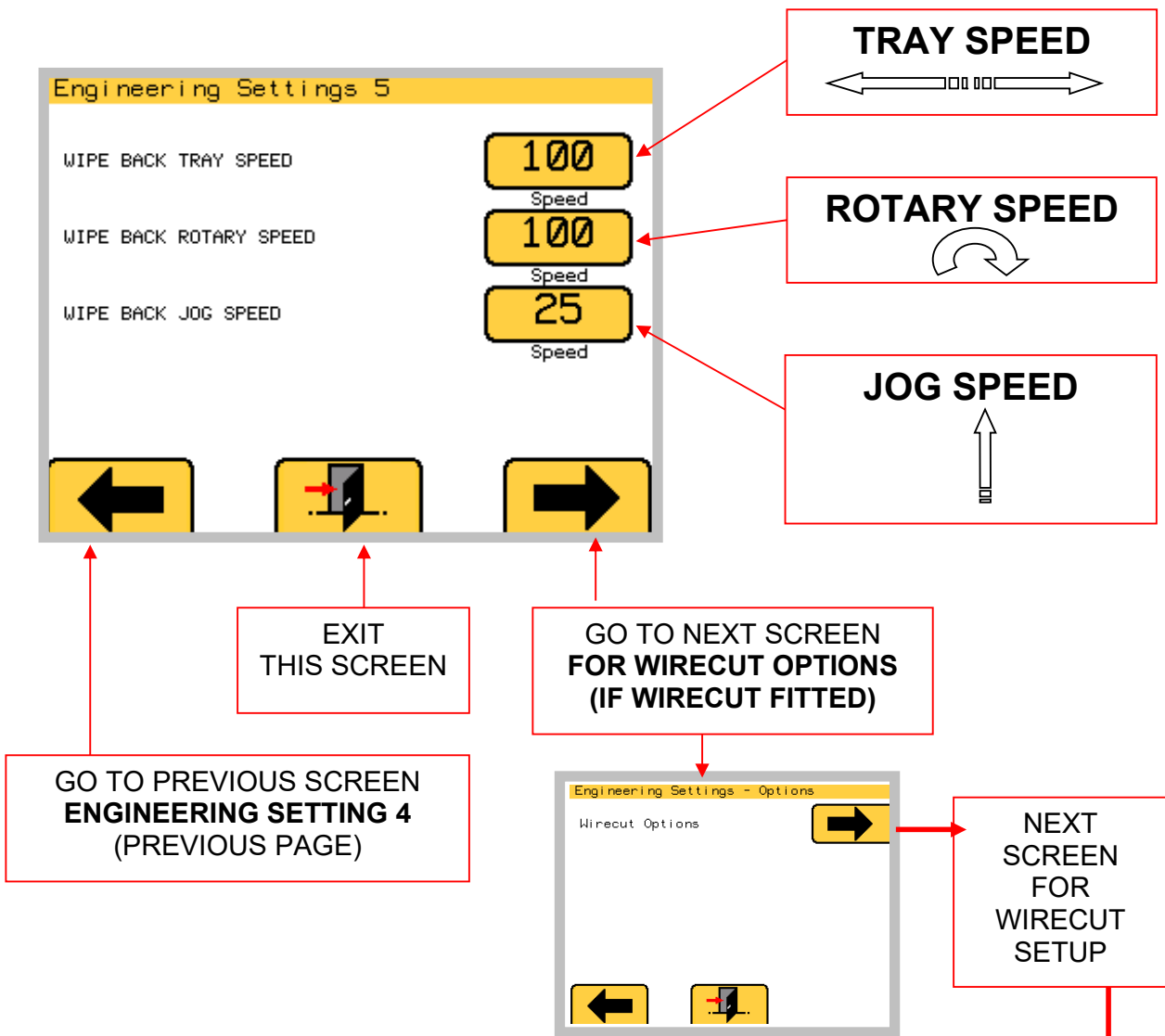
- Left arrow button: GO TO PREVIOUS SCREEN ENGINEERING SETTING 3 (PREVIOUS PAGE)
- Center button: EXIT THIS SCREEN
- Right arrow button: GO TO NEXT SCREEN ENGINEERING SETTING 5 (NEXT PAGE)
- PUMP label points to the Pump Gearbox Ratio row.
- TRAY label points to the Tray Gearbox Ratio row.
- JOG label points to the Jog Gearbox Ratio row.
- ROTARY label points to the Rotary Gearbox Ratio row.

### **CAUTION**

**DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS**

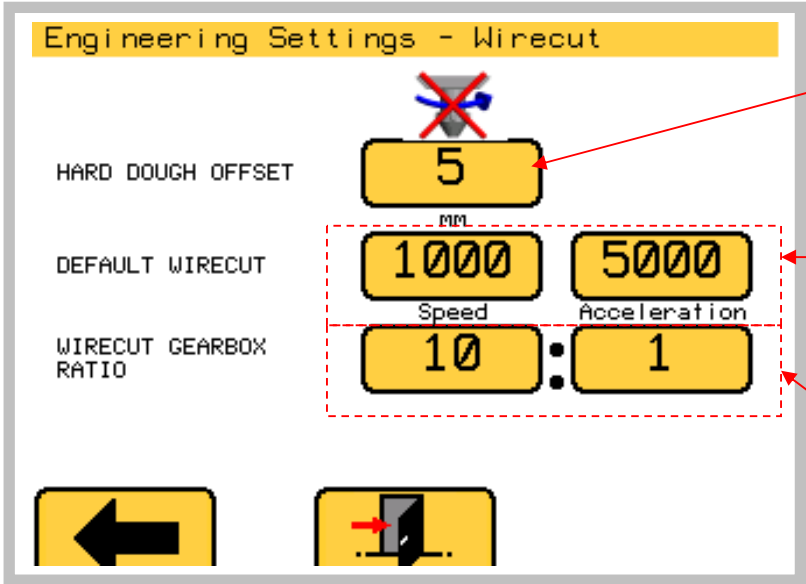
THIS SECTION IS FOR TRAINED ENGINEERS ONLY

## WIPE BACK DEFAULT SETTINGS (SEE 5A )



**CAUTION**  
DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS

# WIRECUT SETTINGS



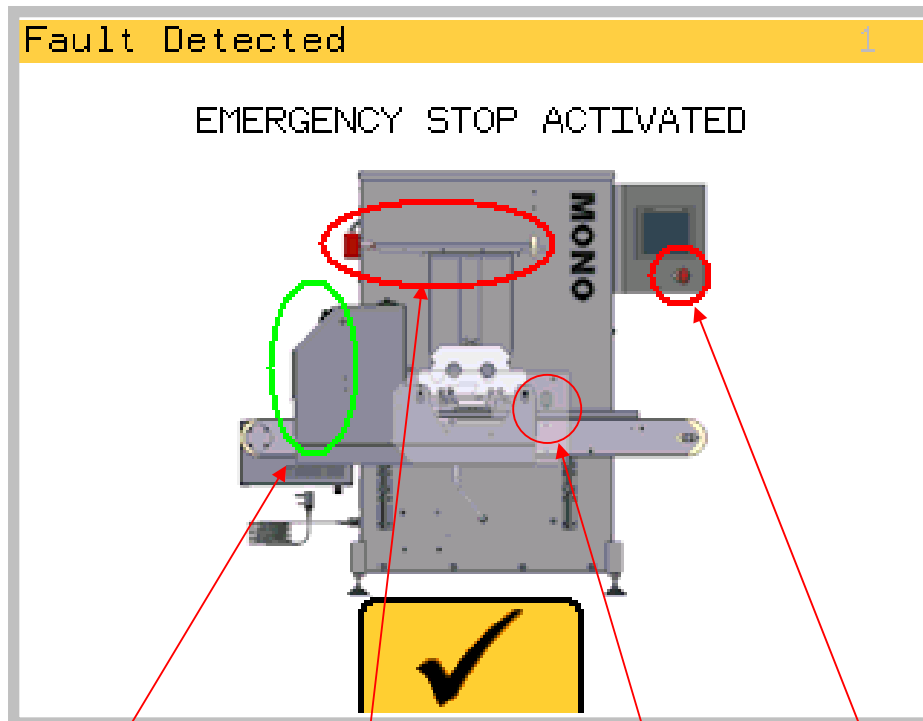
**HARD DOUGH  
OFFSET**

**WIRECUT  
SPEED +  
ACCELERATION**

**WIRECUT  
GEARBOX RATIO**

**EXIT  
THIS SCREEN**

**GO TO PREVIOUS SCREEN  
ENGINEERING SETTING 4  
(PREVIOUS PAGE)**



WIRECUT COVER  
(IF FITTED)

HOPPER COVER

SAFETY BEAM

STOP BUTTON

THIS SCREEN INDICATES A FAULT CONDITION IN THE SAFETY AREAS.


WHEN **RED**, CLOSE COVER OR CLEAR OBSTRUCTIONS TO CLEAR FAULT.

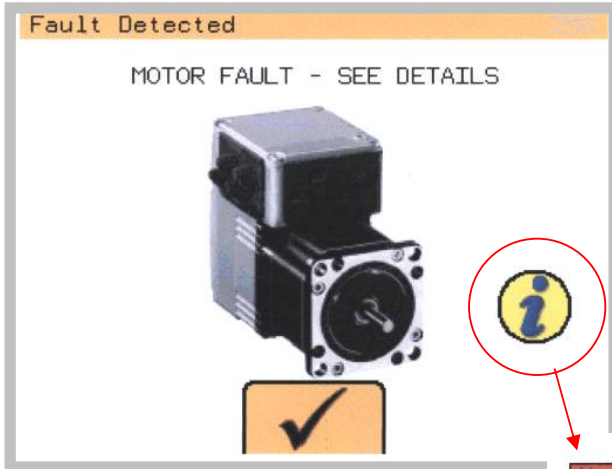
WHEN INDICATOR GOES **GREEN**, FAULT HAS BEEN CORRECTED AT THAT POSITION.

PRESS  BUTTON TO CLEAR SCREEN

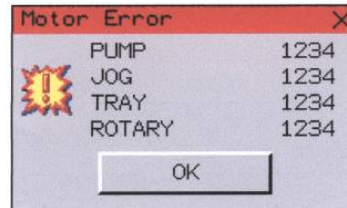
## **CAUTION**

**DO NOT ATTEMPT TO MAKE ADJUSTMENTS UNLESS YOU ARE FULLY AWARE OF THE RESULTS**

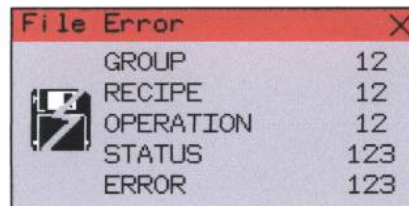
IF THE FOLLOWING SCREEN APPEARS, CHECK THAT THE TABLE MOVEMENT ETC. IS NOT JAMMED WITH SOMETHING. IF IT IS, CLEAR THE OBSTRUCTION AND PRESS  TO PROCEED.



PRESS THIS BUTTON IF MORE INFORMATION IS REQUIRED AS TO WHICH MOTOR IS AT FAULT



**IF THE FAULT IS NOT OBVIOUS AND NOT ABLE TO BE CLEARED SAFELY, A SUITABLY TRAINED ENGINEER SHOULD BE CALLED**



ERROR WHEN LOADING/SAVING RECIPE DATA TO HMI STORAGE CARD

PLEASE CONTACT SERVICE DEPT. / ENGINEER IF PROBLEM PERSISTS

## 11.0 MAINTENANCE

---

Under most conditions the machine only needs to be kept clean and used as instructed in this manual.



**WARNING: DO NOT UNDER ANY CIRCUMSTANCES USE  
A WATER HOSE OR PRESSURE WASHER TO CLEAN  
THIS MACHINE.**

# Mono Omega Touch

## Check and Maintenance Schedule

Operation	Daily	weekly	3 monthly	Yearly
Clean depositor as per instructions in manual	*			
Check condition of supply lead and plug	*			
check fit of guards	*			
Clean under conveyor belts		*		
Check hopper seals		*		
Check end cap seals		*		
Check condition and tension of conveyor, adjust / replace as required			*	
Check end cap bearings			*	
check alignment of sensors on guards			*	
Check tray sensor is secure			*	
Check condition of idle roller bearings				*
Check condition of drive shaft bearings				*
Check condition and tension of chain and grease as required				*
Grease slides as required				*
adjust eccentric guide rollers as required				*
adjust concentric guide rollers as required				*
Check and grease all slide plates as required				*
Check all motor mounts are tight				*
inspect electrical connections and tighten as required				*

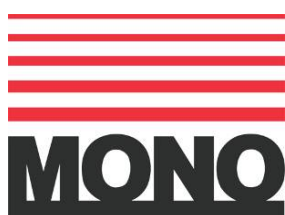
**Under no circumstances should maintenance or cleaning of this machine be done with the power connected**

## 12.0 SPARES AND SERVICE

Omega PLUS

If a fault arises, please do not hesitate to contact the Customer Service Department, quoting the **machine serial number** on the silver information plate of the machine and on the front cover of this manual

### UK SERVICE, SPARES and OVERSEAS SUPPORT:



Queensway  
Swansea West Industrial Estate  
Swansea.  
SA5 4EB  
UK

**email: [spares@monoequip.com](mailto:spares@monoequip.com)**  
**Spares Tel. +44(0)1792 564039**  
**Web site: [www.monoequip.com](http://www.monoequip.com)**

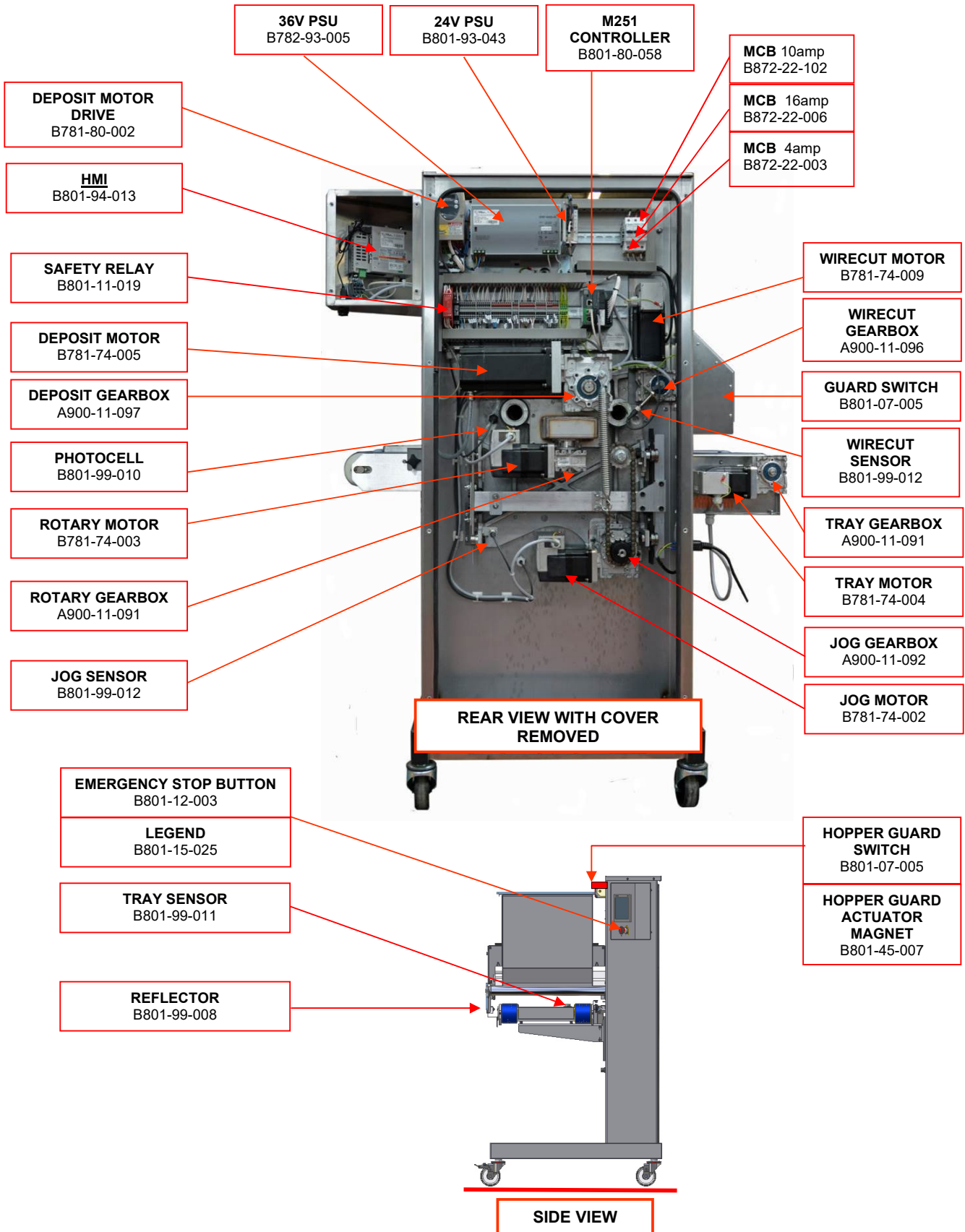
Main Tel. 01792 561234  
Fax. 01792 561016

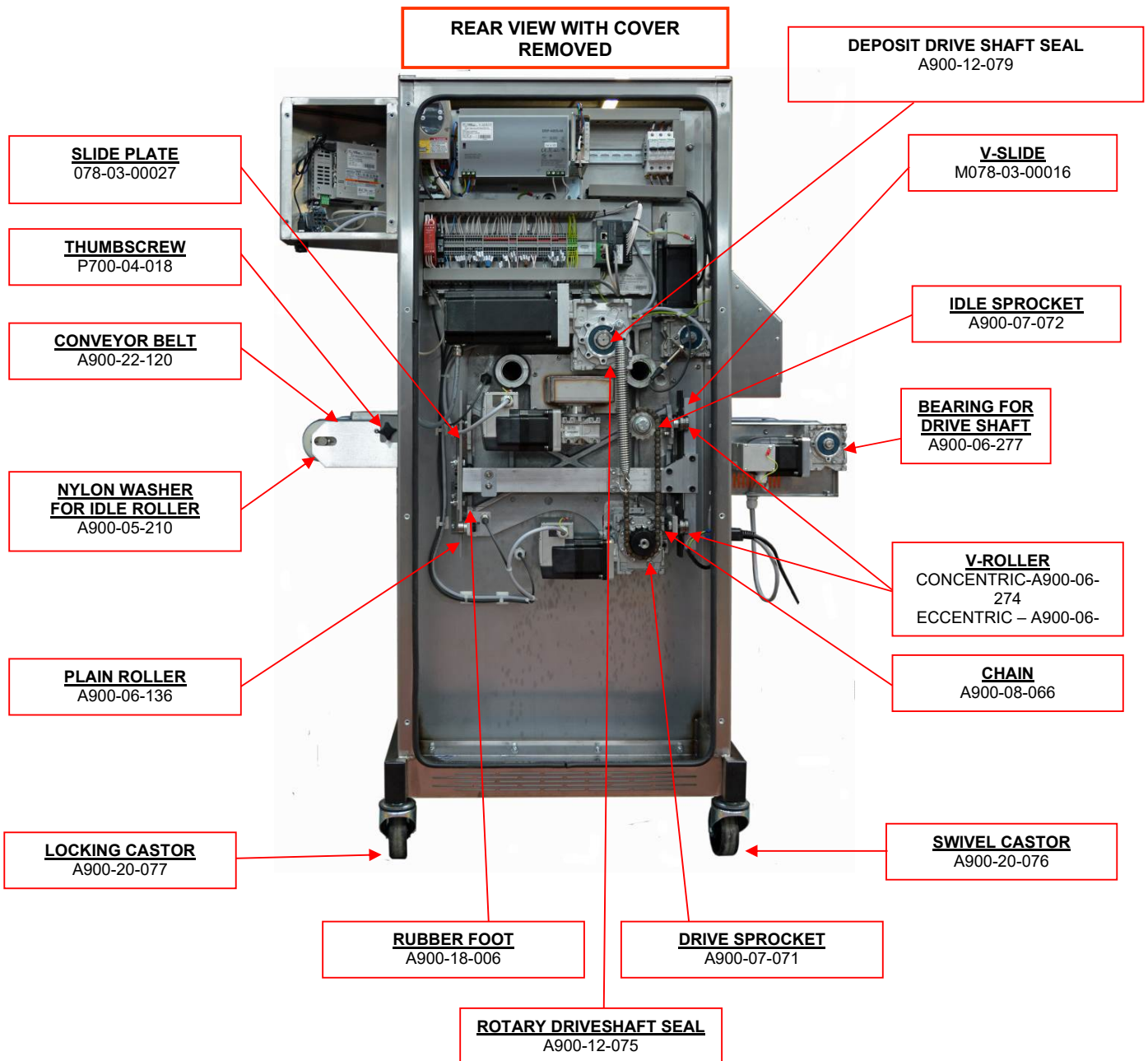
**BASE MACHINE SPARES LIST****Omega PLUS -- WIRECUT VERSION**

<b>Spares Item Description</b>	<b>Mono Part No.</b>	<b>Qty Req. per M/C</b>
Deposit Gearbox	A900-11-097	1
Jog Gearbox	A900-11-092	1
Rotary Gearbox	A900-11-091	1
Tray Gearbox	A900-11-091	1
Concentric Guide Roller	A900-06-274	2
Eccentric Guide Roller	A900-06-273	2
V Slide	078-03-00016	1
Slide Plate	078-03-00027	1
Jog Drive Chain	A900-08-066	1
Simplex Sprocket 16T 1/2" Pitch	A900-07-071	1
Idler Sprocket 16T 1/2" Pitch	A900-07-072	1
Circlip-Ext Metric 14mm Dia	A900-01-280	1
Circlip-Ext Metric 24mm Dia	A900-01-193	1
Drive Shaft – Hopper	078-03-00015	1
Rotary Drive Shaft	078-03-00011	1
Drive Gear - Rotary Template	078-03-00010	1
Lip Seal (Rotary Drive Shaft)	A900-12-075	1
Lip Seal (Deposit Drive Shaft)	A900-12-079	1
End Guard (Earlier plastic version)	078-11-00036 078-11-00005)	1
Retainer – End Guard (Earlier plastic version)	078-11-00035 078-11-00002)	2
Spacer – 450mm/580mm Hopper	078-11-00003	1
Spacer – 400mm Hopper	078-11-00004	1
Seal-Rear Cover	A900-25-309	1

**ELECTRICAL COMPONENT LAYOUT PARTS**

**Omega PLUS -- WIRECUT VERSION**



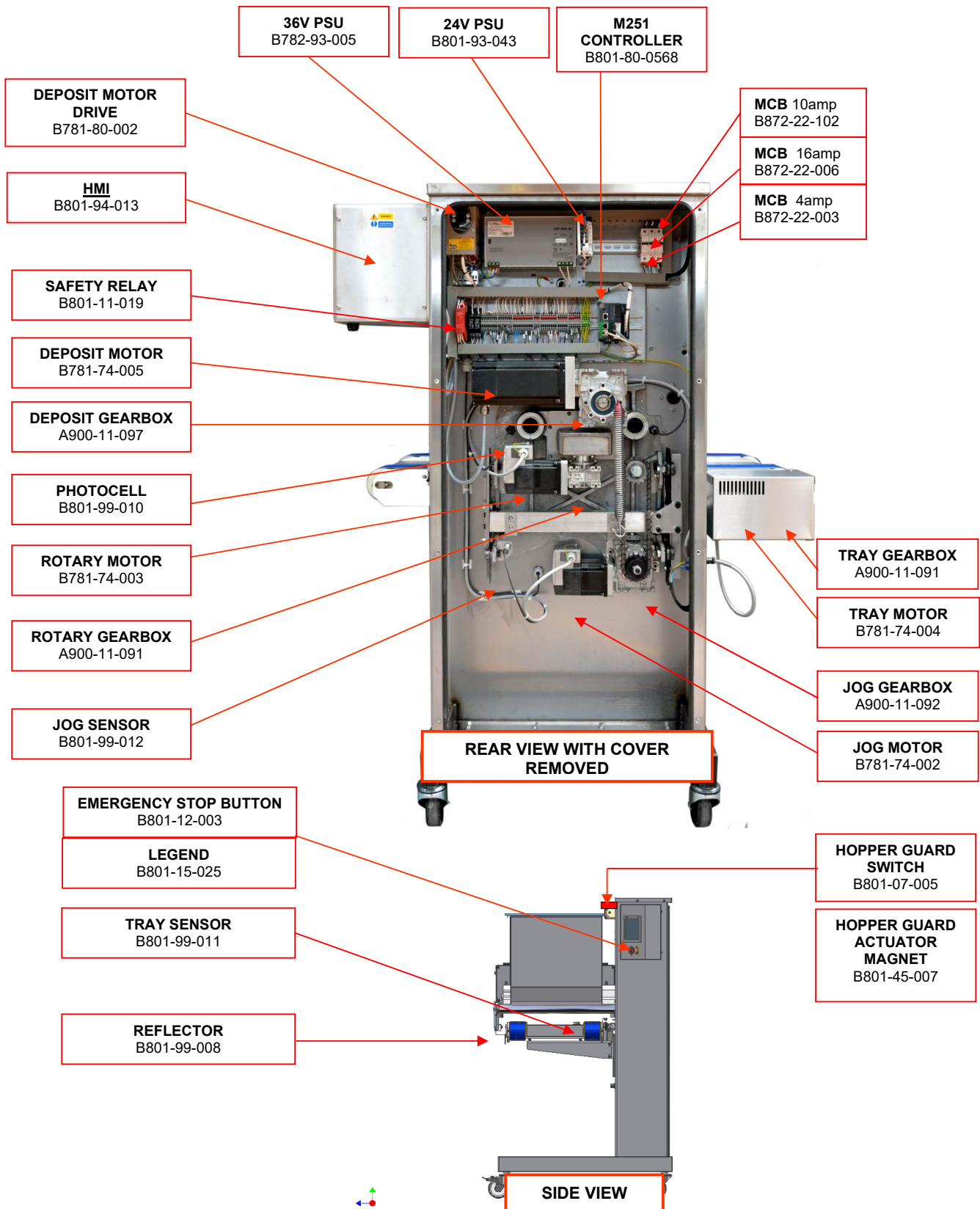


**BASE MACHINE SPARES LIST****Omega PLUS -- NO WIRECUT VERSION**

<b>Spares Item Description</b>	<b>Mono Part No.</b>	<b>Qty Req. per</b>
<b>Machine</b>		
Deposit Gearbox	A900-11-097	1
Jog Gearbox	A900-11-092	1
Rotary Gearbox	A900-11-091	1
Tray Gearbox	A900-11-091	1
Concentric Guide Roller	A900-06-274	2
Eccentric Guide Roller	A900-06-273	2
V Slide	078-03-00016	1
Slide Plate	078-03-00027	1
Jog Drive Chain	A900-08-066	1
Simplex Sprocket 16T 1/2" Pitch	A900-07-071	1
Idler Sprocket 16T 1/2" Pitch	A900-07-072	1
Circlip-Ext Metric 14mm Dia	A900-01-280	1
Circlip-Ext Metric 24mm Dia	A900-01-193	1
Drive Shaft – Hopper	078-03-00015	1
Rotary Drive Shaft	078-03-00011	1
Drive Gear - Rotary Template	078-03-00010	1
Lip Seal (Rotary Drive Shaft)	A900-12-075	1
Lip Seal (Deposit Drive Shaft)	A900-12-079	1
End Guard (Earlier plastic version)	078-11-00036 078-11-00005)	1
Retainer – End Guard (Earlier plastic version)	078-11-00035 078-11-00002)	2
Spacer – 450mm/580mm Hopper	078-11-00003	1
Spacer – 400mm Hopper	078-11-00004	1
Seal-Rear Cover	A900-25-309	1

# ELECTRICAL COMPONENT LAYOUT PARTS

Omega PLUS -- NO WIRECUT VERSION



# HARD DOUGH HOPPER PARTS

Omega PLUS ONLY

## HOPPER FABRICATION

### STANDARD CAPACITY

M078-09-00086 (400mm)  
M078-09-00042 (450mm)  
M078-09-00089 (580mm)

### EXTENDED CAPACITY

M078-09-00087 (400mm)  
M078-09-00088 (450mm)  
M073-09-00092 (580mm)

**WINGNUT**  
A900-04-147

**UPPER END BLOCK**  
(DRIVEN SIDE)  
M078-09-00144

## ROLLER OPTIONS

**M078-KMX004 400mm**  
4MM GROOVE - ALUMINIUM

**M078-KMX005 400mm**  
6MM GROOVE - ALUMINIUM

**M078-KMX006 400mm**  
8MM GROOVE - ALUMINIUM

**M078-KMX015 400mm**  
8MM GROOVE - PLASTIC

**M078-KMX007 450mm**  
4MM GROOVE - ALUMINIUM

**M078-KMX008 450mm**  
6MM GROOVE - ALUMINIUM

**M078-KMX009 450mm**  
8MM GROOVE - ALUMINIUM

**M078-KMX010 580mm**  
4MM GROOVE - ALUMINIUM

**M078-KMX011 580mm**  
6MM GROOVE - ALUMINIUM

**M078-KMX012 580mm**  
8MM GROOVE - ALUMINIUM

### STANDARD(St Steel) ROLLERS

DRIVE	400MM	078-09-00066
	450MM	078-09-00060
	580MM	078-09-00074
DRIVEN	400MM	078-09-00067
	450MM	078-09-00061
	580MM	078-09-00075

## TEMPLATES TO CUSTOMER REQUIREMENTS

### ROTARY

- SMALL BORE
- LARGE BORE

### STANDARD

- SMALL BORE
- LARGE BORE

### DIE

### SHEETING

**UPPER END BLOCK**  
(DRIVE SIDE)  
M078-09-00143

**LOWER END BLOCK**  
(DRIVE SIDE)  
M078-09-00141

**THUMBSCREW**  
M078-09-00043

**LOWER END BLOCK**  
(DRIVEN SIDE)  
M078-09-00142

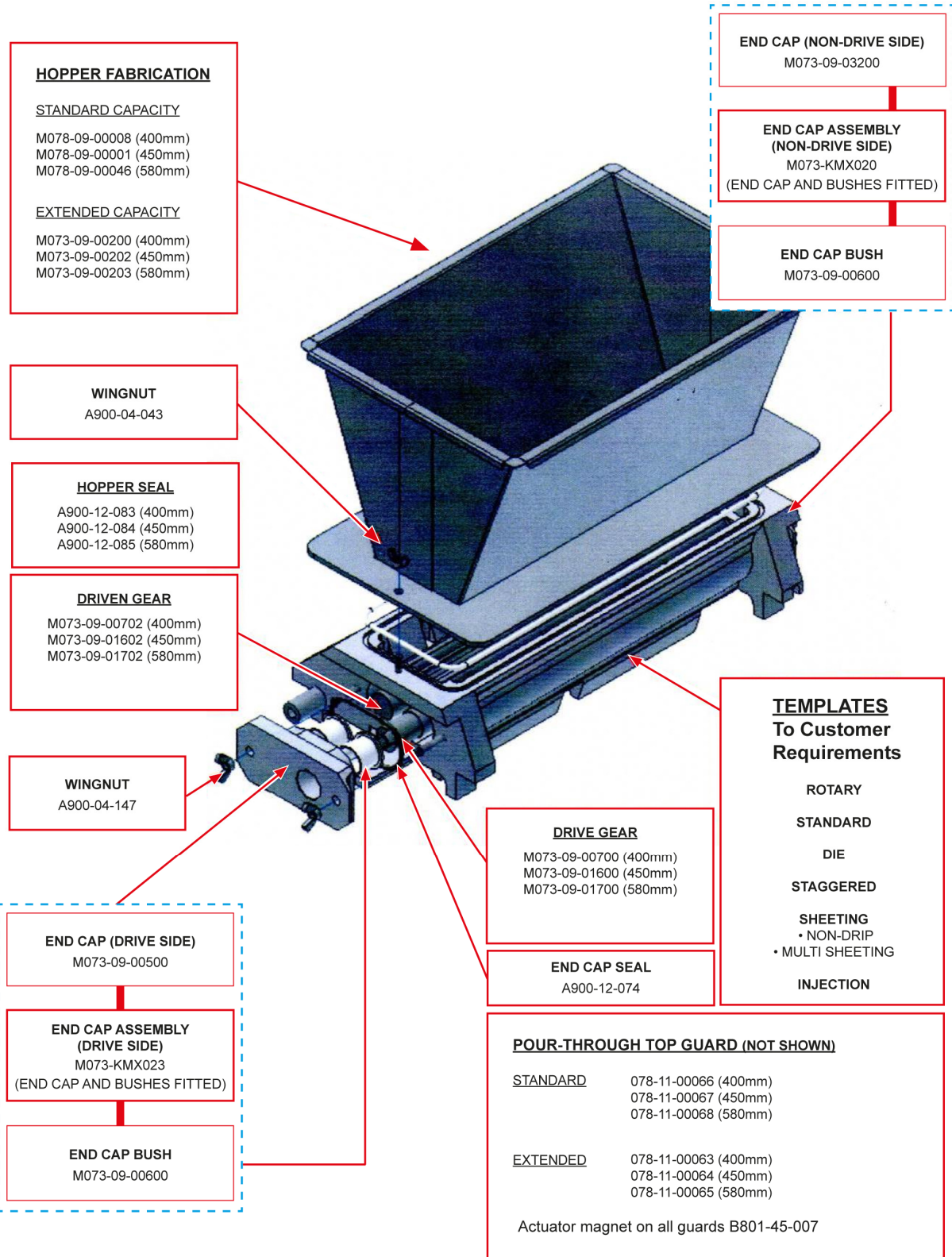
## POUR-THROUGH TOP GUARD (NOT SHOWN)

### HARD DOUGH

400MM	078-11-00060
450MM	078-11-00061
580MM	078-11-00062

# SOFT DOUGH HOPPER PARTS

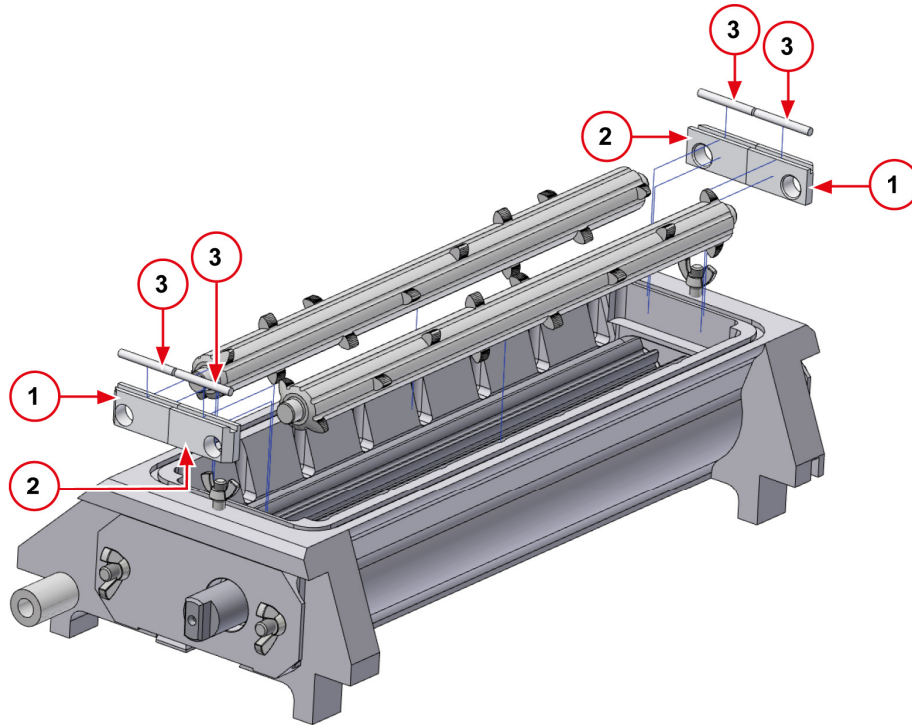
Omega PLUS ONLY



# INTERMEDIATE GEARS PARTS

Omega PLUS ONLY

Bearing blocks and sealing strips



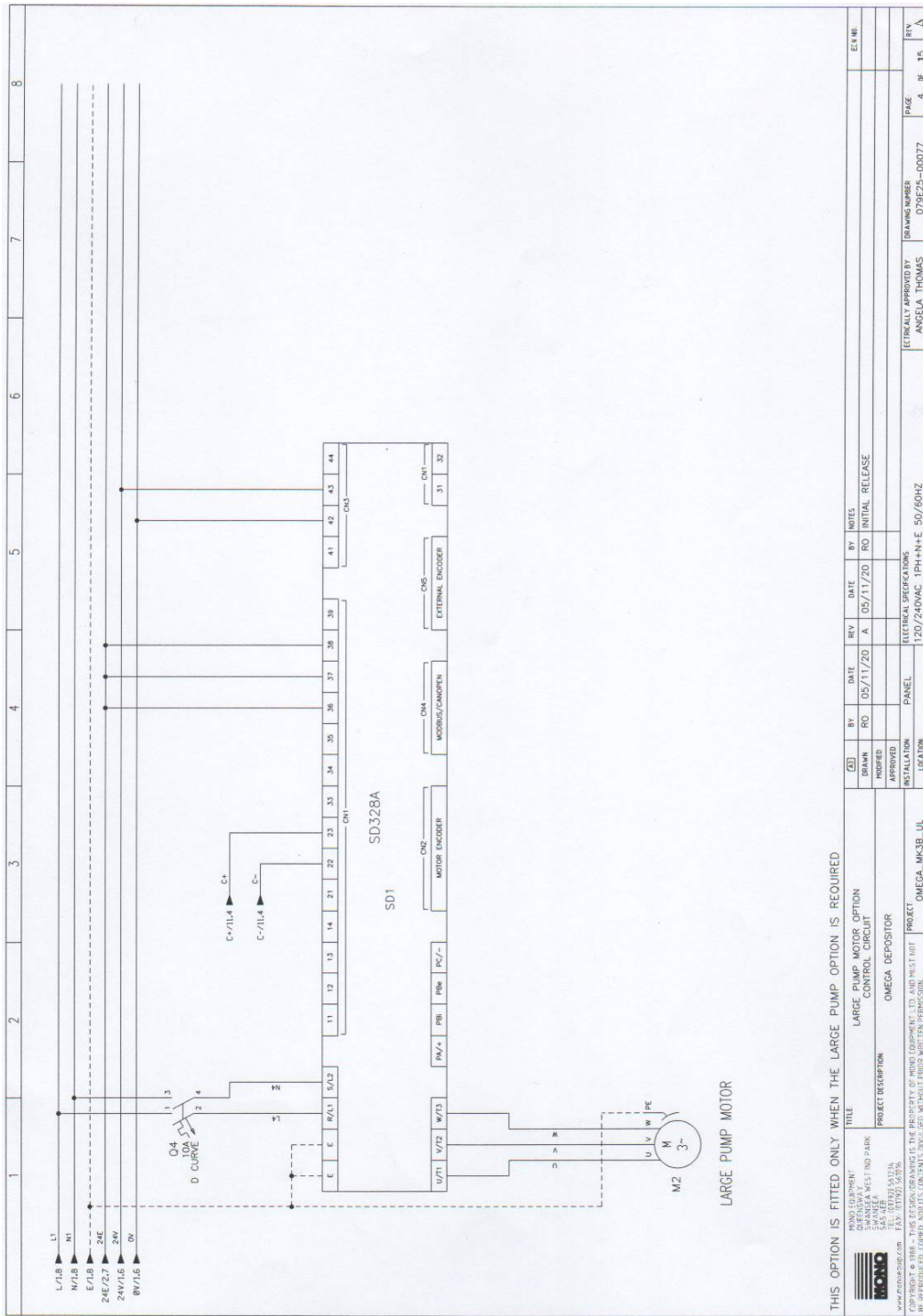
Position	Part Number	Part Description
1	073-09-10100	Intermediate bearing blocks (as drawn, one required for each end)
2	073-09-10101	Intermediate bearing blocks (opp. hand, one required for each end)
3	073-09-10300	Intermediate bearing block sealing strip (two required for each end)

## **13.0 ELECTRICAL INFORMATION**





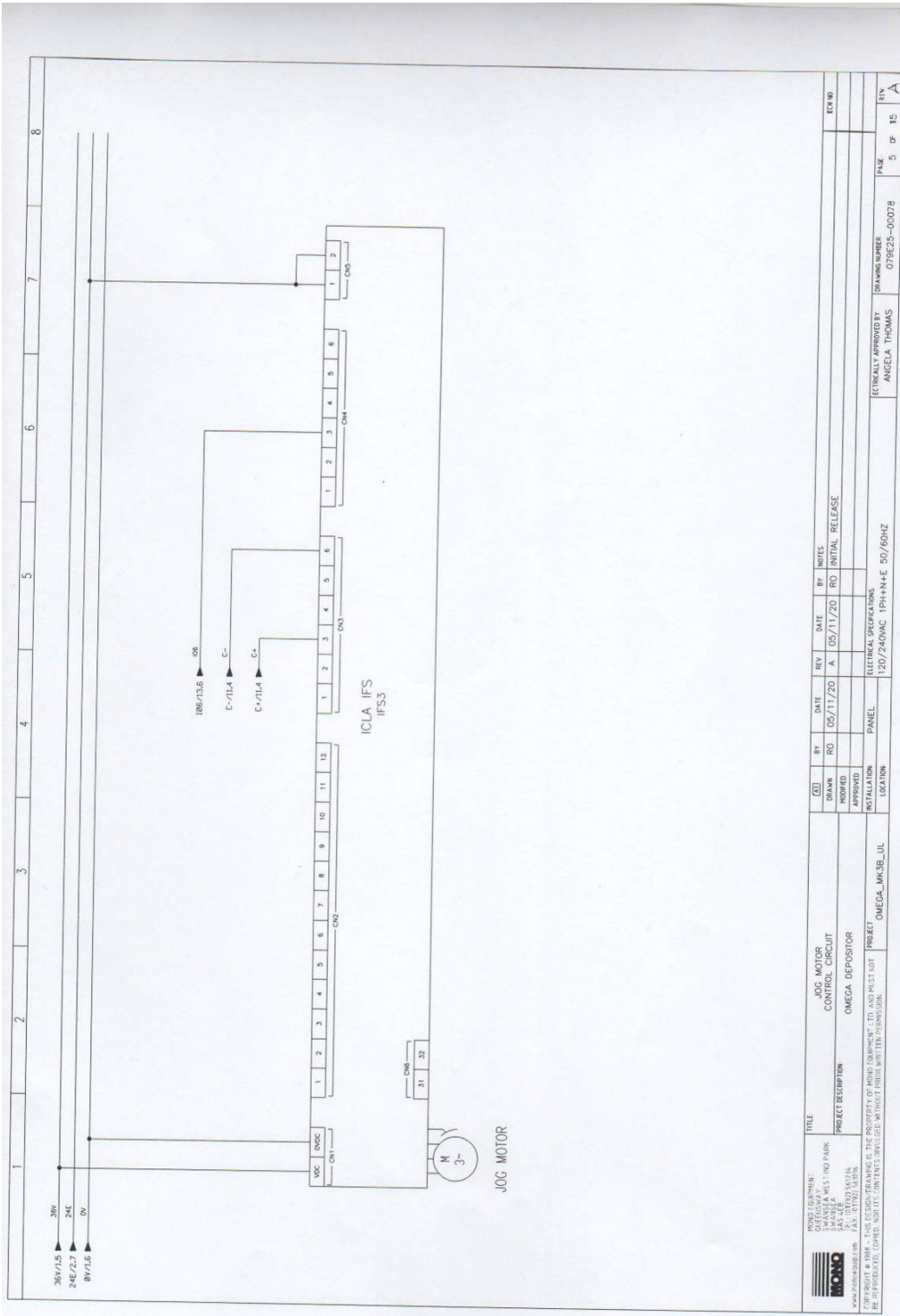




THIS OPTION IS FITTED ONLY WHEN THE LARGE PUMP OPTION IS REQUIRED

		TITLE LARGE PUMP MOTOR OPTION CONTROL CIRCUIT		DATE 05/11/20	BY RO	BY NOTES RD INITIAL RELEASE	ECR NO. 
PROJECT DESCRIPTION OMEGA DEPOSTOR		DATE 05/11/20	REV A	DATE 05/11/20	BY RO	BY NOTES RD INITIAL RELEASE	ECR NO. 
PROJECT OMEGA_MK3B_LUL		INSTALLATION PANEL	ELECTRICAL SPECIFICATIONS 120/240VAC 1PH+NE 50/60HZ	LOCATION 	DRAWING NUMBER 079525-00077	ELECTRICALLY APPROVED BY ANGELA THOMAS	PAGE 4 OF 15
www.monomeg.com		OMEGA DEPOSITO SWANSEA WEST IND PARK S.W. 10TH ST SWANSEA, MA 01903-5457 FAX: (508) 547-5474		OMEGA DEPOSITO SWANSEA WEST IND PARK S.W. 10TH ST SWANSEA, MA 01903-5457 FAX: (508) 547-5474		OMEGA DEPOSITO SWANSEA WEST IND PARK S.W. 10TH ST SWANSEA, MA 01903-5457 FAX: (508) 547-5474	





		<b>MONO EQUIPMENT</b> 5750 W. 14TH AVENUE, SUITE 100 DENVER, CO 80202 TEL: (303) 751-1111 FAX: (303) 751-1112 WWW.MONO.COM		<b>TITLE</b> JOG MOTOR CONTROL CIRCUIT		<b>DATE</b> 05/11/20		<b>REV</b> A		<b>BY</b> RD		<b>DATE</b> 05/11/20		<b>REV</b> A		<b>BY</b> RD		<b>NOTES</b> INITIAL RELEASE		<b>ECN#</b> 	
<b>PROJECT DESCRIPTION</b> OMEGA DEPOSITOR		<b>INSTALLATION</b> OMEGA_MK3B_UL		<b>LOCATION</b> 		<b>PANEL</b> ELECTRICAL SEPARATORS		<b>120/240VAC 1PH/1N-E 50/60HZ</b>		<b>DRAWING NUMBER</b> 07BZ25-0002B		<b>SCALE</b> 5 OF 15		<b>DATE</b> 		<b>BY</b> 		<b>APPROVED BY</b> ANGELA THOMAS		<b>REV</b> A	

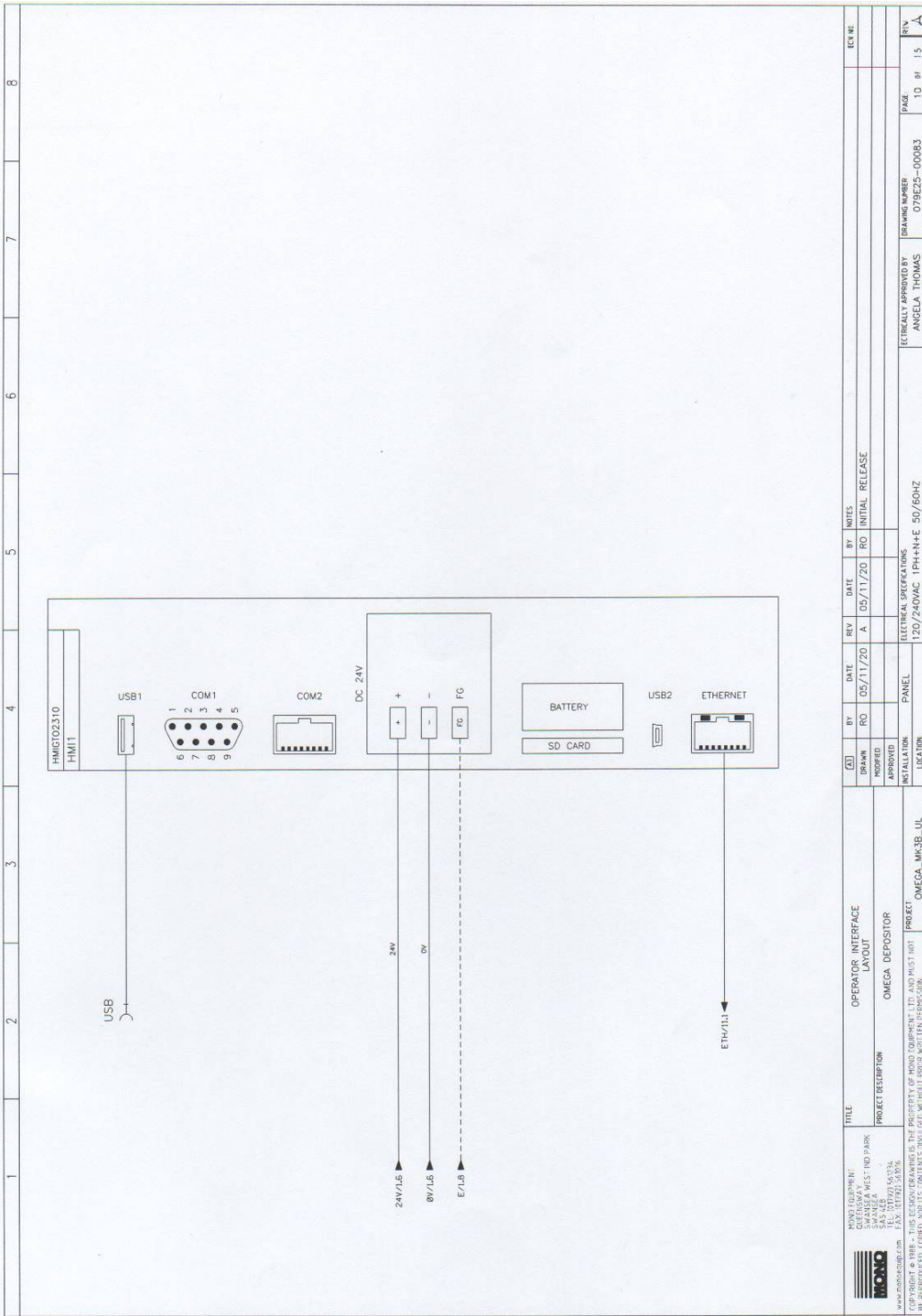




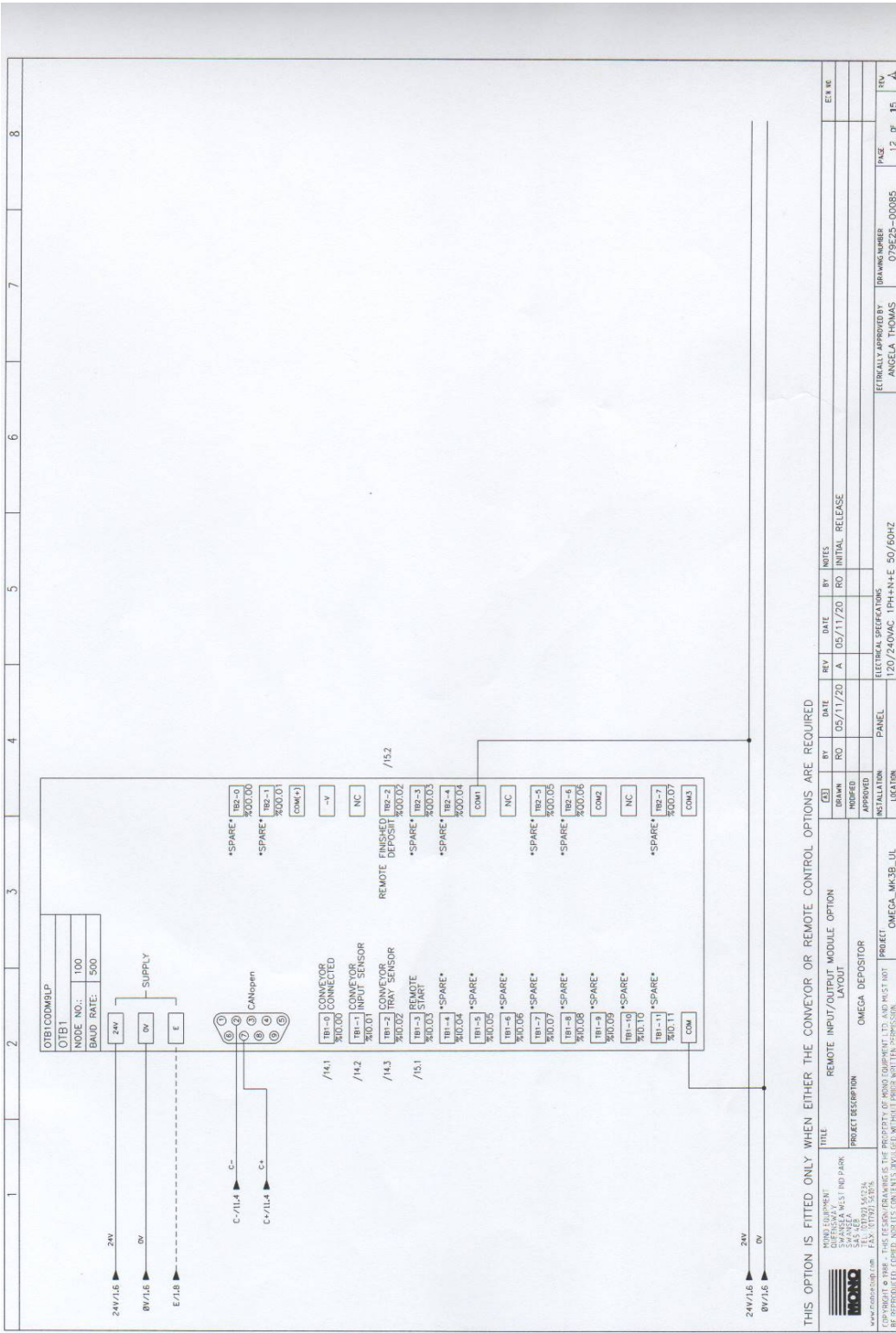












THIS OPTION IS FITTED ONLY WHEN EITHER THE CONVEYOR OR REMOTE CONTROL OPTIONS ARE REQUIRED

REV	DATE	BY	INTS	REV	DATE	BY	INTS
A	05/11/20	RO	INITIAL RELEASE	A	05/11/20	RO	INITIAL RELEASE

DESCRIPTION	OMEGA DEPOSITOR	PROJECT	OMEGA_MK3B_LUL	LOCATION
INSTALLATION	PANEL	ELECTRICAL SPECIFICATIONS	120/240VAC 1PH+N+E 50/60HZ	

REV	DATE	BY	INTS
A	05/11/20	RO	INITIAL RELEASE

REV	DATE	BY	INTS
A	05/11/20	RO	INITIAL RELEASE

REV	DATE	BY	INTS
A	05/11/20	RO	INITIAL RELEASE

REV	DATE	BY	INTS
A	05/11/20	RO	INITIAL RELEASE

REV	DATE	BY	INTS
A	05/11/20	RO	INITIAL RELEASE

REV	DATE	BY	INTS
A	05/11/20	RO	INITIAL RELEASE











As it is our policy to improve our machines continuously, we reserve the right to change specifications without prior notice



**Omega PLUS**



**Omega PLUS  
And WIRECUT**



Queensway,  
Swansea West Industrial Estate,  
Swansea.  
SA5 4EB  
UK

**Tel. +44(0)1792 561234**

Spares Tel. +44(0)1792 564039

Fax. 01792 561016

Email: [marketing@monoequip.com](mailto:marketing@monoequip.com)

**Web site: [www.monoequip.com](http://www.monoequip.com)**

▪ **DISPOSAL**

Care should be taken when the machine comes to the end of its working life. All parts should be disposed of in the appropriate place, either recycling or other means as the law permits at the time.