



Job #: CAM_20120
Customer: Triple A Cheese
Date: January 15, 2021

FUNCTIONAL DESCRIPTION

420MN Packaging Systems w/ 4-Head Linear Scales and Piston Pumps

System Function:

4 Head Linear Scale – 420MN Functionality

- Product will be provided to incline conveyor with customer supplied solution.
- Product will be carried up incline conveyor to top of support stand where it will enter a custom feeding system.
- The custom chute system will distribute product to the two 4-head linear scales situated underneath.
- Once a desirable weight combination has been achieved, product will be released from scale hoppers and fall into 420MN VFFS packaging machine.
- Product will travel through product funnel and into forming tube.
- As film is fed through machine, the thermal transfer printer will apply desired text to appropriate location on film.
- Film will be wrapped around forming tube to create a bag. Product will fall into this bag.
- A gas flush system will provide a customer supplied gas solution into the forming tube to be captured in the finished package.
- Once product has settled into bag, it will be sealed and cut. Finished products will drop to exit conveyor below the system.
- Exit conveyor will carry finished bags away from VFFS machinery up to operator height and onto customer provided solution (collection table).

Piston Pump – 420MN Functionality

- Liquid product will be housed in a customer supplied container. Product will need to be warmed and liquified to ensure proper piston pump operation.
- When system is activated, product will be lifted to top of 420MN using piston pump.
- Once system is primed, piston pump will release desired amount of product through forming tube of VFFS system.
- As film is fed through the machine, the thermal transfer printer will apply desired text to appropriate location on film.
- Film will be wrapped around forming tube to create a bag. Product will be deposited into this bag.
- Once product has settled into bag, it will be sealed and cut. Finished products will drop to exit conveyor below the system.
- Exit conveyor will carry finished bags away from VFFS machinery up to operator height and onto a customer provided solution (collection table)

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System Speeds:

- 25-30 packages per minute per 420MN unit

Speeds are dependent on consistent flow and supply of product

Cleaning:

The Incline conveyor portion of this system will be designed to be a wash down unit. All other components of this system can not be exposed to water and should be wiped down or dismantled and removed from any machinery before cleaning.

If washing the incline conveyor, it will need to be moved away from all other machinery before exposing it to water.

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Product Specifications:

4 Head Linear Scales – 420MN

Crumbled Feta

Quantities and Bag Length:

- 28g (100mm bag length)
- 56g (150mm bag length)

Shredded Cheese

Quantities and Bag Length:
TBD

Piston Pump – 420MN

Sour Cream (Liquid)

Quantities and Bag Length:

- 45ml (115mm Bag Length)
- 90ml (140mm Bag Length)
- 180ml (170mm Bag Length)

Yogurt (Liquid)

Quantities and Bag Length:

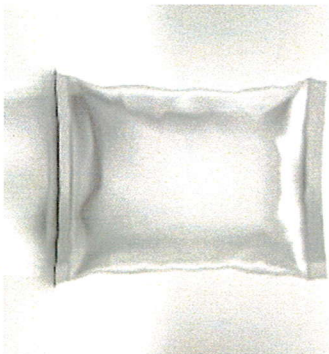
- 100ml (150mm Bag Length)
- 200ml (180mm Bag Length)

****Product photos to be sent at a later date****

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Package Specifications:

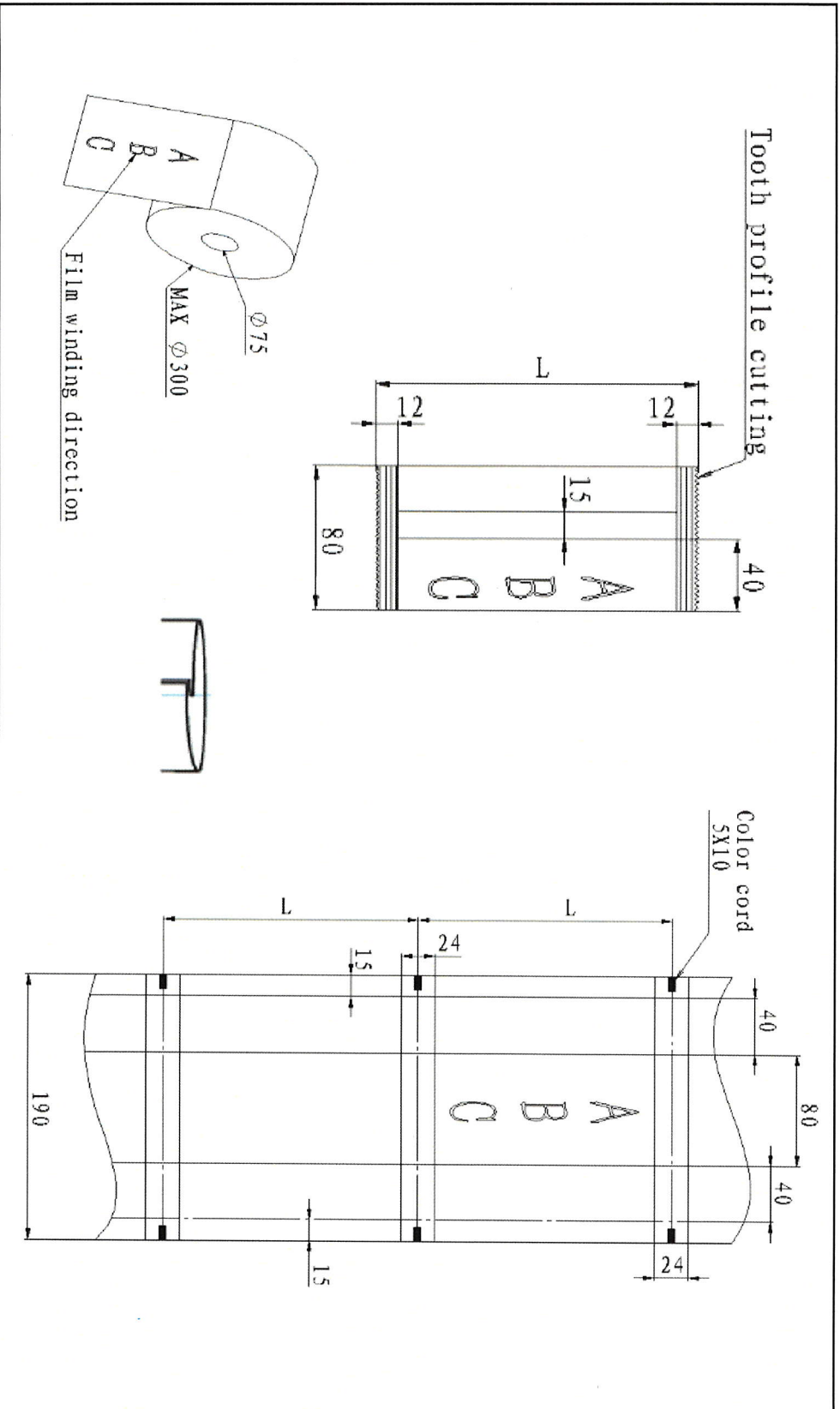
Photo	Description	Type	Package Details
	80mm Finished Width Bag Length adjustable on machinery	Clear Film Bag – no graphics	Finished Bag Dimensions: W: 80mm L: 100-180mm (determined by settings on machine) Layflat Film Width: 190mm See film layout details below.
	90mm Finished Bag Width Length adjustable on machinery	Clear Film Bag – no graphics	Finished Bag Dimensions: W: 90mm L: 100-180mm (determined by settings on machine) Layflat Film Width: 190mm See film layout details below.

****For illustrative purposes only****

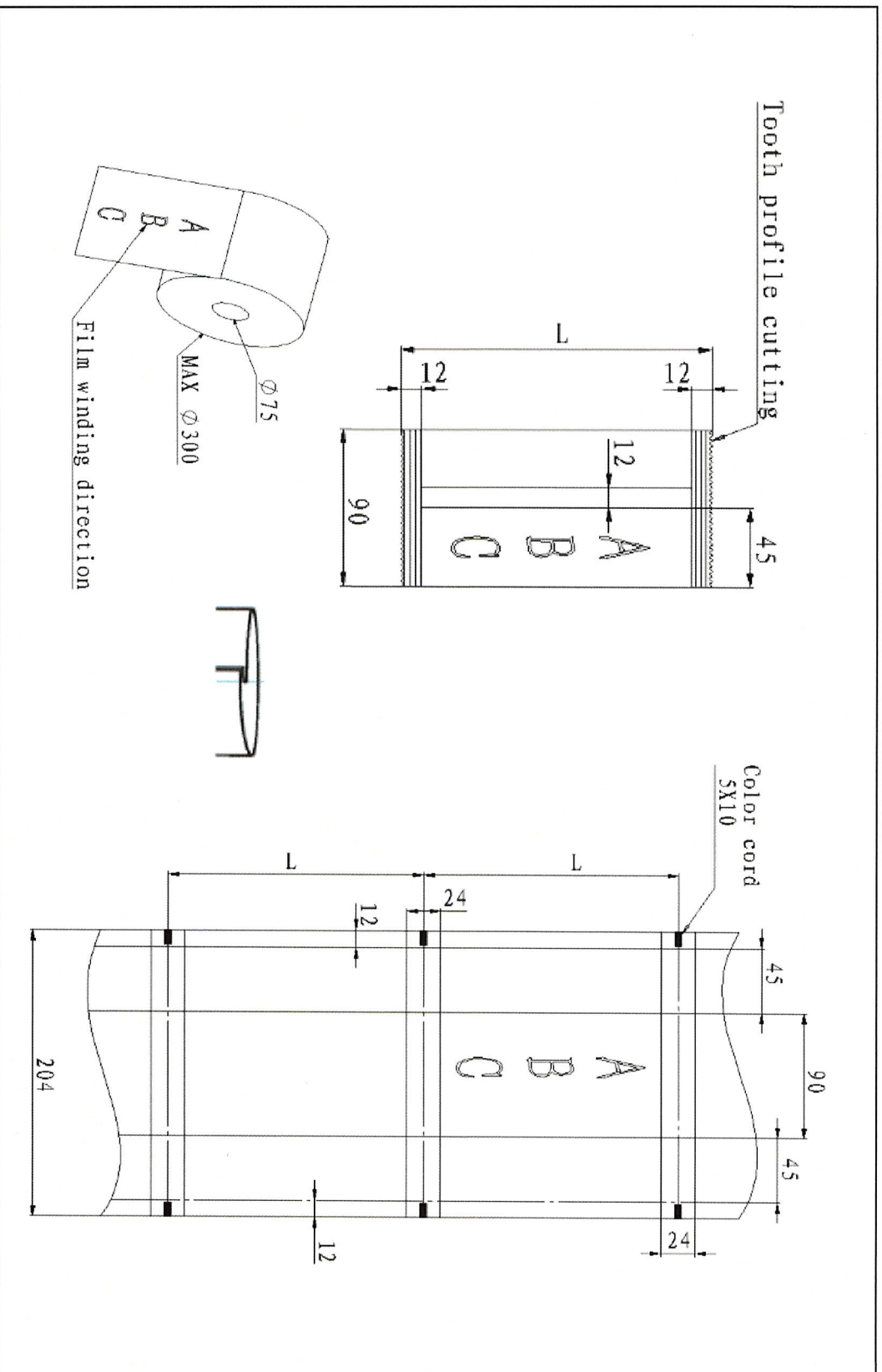


Film Layouts:

80mm Wide Finished Package – 190mm LayFlat Film Width



90mm Wide Finished Package – 204mm Layflat Film Width





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Printing Details

All 420MNs in this order are outfitted with a TTO printer.

Desired Text

Text printed on bag will be as follows:

Product Description (ex. Crumbled Feta)
Packaging Weight (ex. 28g)
Expiry Date (ex. BB/MA: 2021 07 14)

Crumbled feta expiry is 180 days
Sour cream expiry is 2 months
Yogurt expiry is 6 months

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Bill of Materials

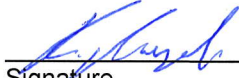
Description	QTY
Incline Conveyor System To feed 4-Head Linear Scales	1
Custom Feeding System Delivery chutes from incline conveying system into feed hoppers of 4-Head Linear Scales	1
Support Stand Mezzanine to hold 4-Head Linear Scales	1
Weigh Scales 4-Head Linear Weighers with hopper	2
Pneumatic Piston Fillers 2 x pumps to be installed to 420MN 1 x pump to replace another unit in facility	3
Vertical Form Fill & Seal Machines CV-420MN VFFS Former Sizes: 2 x 80mm Finished Width 2 x 90mm Finished Width	4
Gas Flush Kit To be installed on 420MNs being used with 4HL scales	2
Thermal Transfer Printer Savema 32mm TTO	4
Printer Brackets For mounting TTO printer	4
Exit Conveyor Conveyor to transport completed bags from underneath 420MN to operator height	4



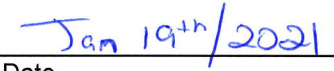
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Approval

Triple A Cheese



Signature



Date



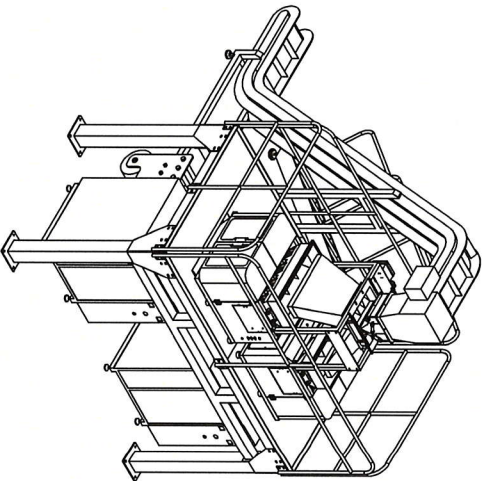
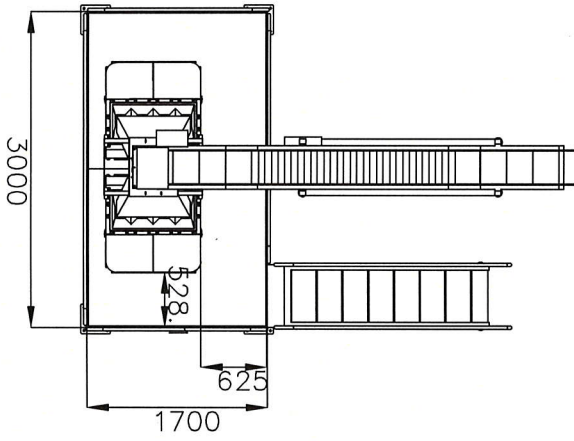
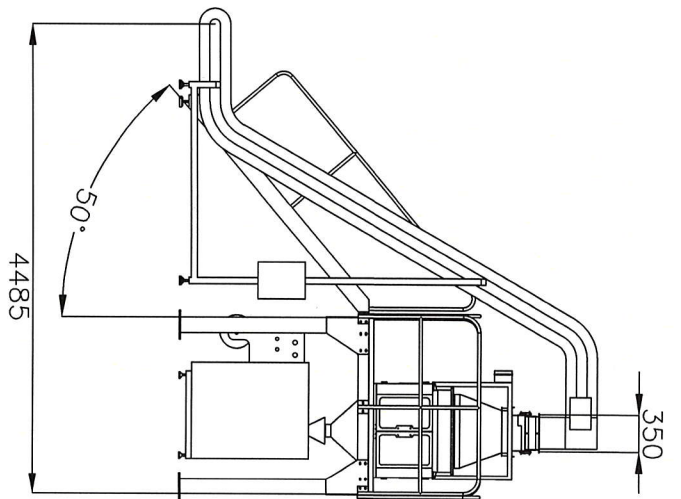
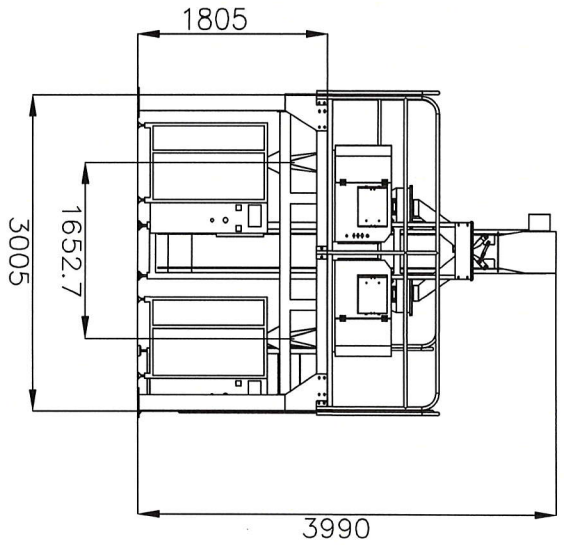
Print Name

CAM Packaging Systems

Signature

Date

Print Name



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 CAM PACKAGING SYSTEMS 228 Industrial Parkway North, Unit 3 Aurora, ON L6B 4C3	PROJECT: CAM_201120	TITLE: TRIPLE A CHEESE 4-HEAD-LINEAR SCALE LAYOUT DRAWN BY: M. PEDEN DATE: JANUARY 15, 2021 SCALE: DIMS IN MM DRAWING NUMBER:
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