GENERAL DESCRIPTION

1) ONE (1) SINGLE UNWIND SYSTEM

One single shaft unwind system to unwind the paper PE structures.

Features

- System holds only 1 reel Paper/PE structure
- Proportional magnetic particle brake
- 3” dia. air shafts (x2)
- Independent servo driven webguide
- Pneumatic roll end sensor and control
- 32” (800mm) diameter x 30” (750mm) wide
- Tread plate deck
- Start/Stop/E-stop

2) ONE (1) SINGLE UNWIND SYSTEM

One single shaft unwind system to unwind the Poly material web.

Features

- System holds only 1 reel
- A.C. centre drive for the PE structures with tension control dancer
- 3” dia. air shafts (2)
- Independent servo driven webguide
- Ultrasonic roll end sensor
- 32” (800mm) diameter x 30” (750mm) wide

3) ZIPPER UNWIND SYSTEM - OPTION

Features:

- Driven zipper unwind/dancer
- Roll size to match zipper profile used

4) SERRATOR UNIT

The serrator unit utilizes air loaded crush cutters against a full width hard mandrel system used to serrate the PE. The system includes a bypass to slit the PE/paper lamination for traditional style envelopes. Up to 5 lanes of envelopes with this feature.

Features:

- Open close switch common/independent
- 5 rotary heads
- 5/8” (16mm) minimum gap
- Independent regulators
- Quick clamp
- Web bypass rollers

5) SLITTER UNIT

The slitter unit utilizes air loaded razor blade system cutter used to slit the PE/paper lamination for traditional style envelopes.

Features

- Open close switch common/independent
- Twin blade slitter to trim out centre of PE web.
- 6 pneumatic heads

- 1 ½" (38mm) minimum gap
- ± 1" (25mm) common adjustment
- Oscillating blade system

6) LONGITUDINAL BAND SEALER

The system uses two segments of constant heat, 10" (254mm) long and one segment of cooling 10" long to seal the printed PE to the paper/PE lamination.

Features

- 6 band sealer stations total. One (1) sealing station includes zipper sealing bar for "2-up" production of zipper envelopes (OPTION)
- Manual adjustment to locator scales
- Independent heat controls
- Heat supplied from the top only
- Endless teflon belts
- Web cling system
- Spring loaded tensioner
- Scale position inside frame
- Inserts. Steel (size to be determined)
- ± 1" (25mm) common adjustment

7). SINGLE CAPSTAN COMPENSATOR

The capstan system is designed to pull the film from the unwind at a constant velocity. While the compensator allows the web to be processed intermittently at a constant tension.

Features

- A.C. inverter drive unit
- Air loaded rubber nip roller
- Trim adjustment
- Non-friction style roller brakes
- Low inertia carbon fiber rollers (3 ¼" dia.)
- Start stop station
- Raised unit exits on web line

8) ZIPPER CRUSH STATION- OPTION

Zipper Crush to seal the edge of the envelope in the zipper area

Features

- Ultrasonic zipper crush station. The carriage is adjustable in repeat direction and across the web. Cross web adjustment is limited to +/- ½" from the centreline of the zipper travel.
- Pneumatic locks
- Grooved rollers for zipper profile
- Ultrasonic zipper crush system

9) TWO (2) SERVO DRIVEN TRANSVERSE SEALING STATIONS

This machine is equipped with two sealing stations to reduce the sealing time. The seal bars are driven via a independent A.C. servo drive to minimise noise, minimise maintenance and synchronise the sealing time with the servo draw rollers to maximize machine output.

Features
- Independent A.C. servo drive
- Two 30” independent aluminium seal stations
- Heat supplied from the top only
- Manual teflon advance
- Tie in linkage
- Repeat adjustment

10) REGISTRATION SYSTEM

The system is used to register the print to the guillotine cut off.

Features
- Electronic eye
- Fully adjustable
- Pneumatic position locks
- Linear mounted to frame unit for easy access to machine

11) FINAL SLITTER UNIT

This slitter utilizes oscillating razorblade style slitters. System is used for final slitting operations to individual pouches.

Features
- Open closed switch common & independent
- 5 heads
- Quick clamp
- 1 ½” minimum gap

12) SERVO DRIVEN EXIT DRAW ROLLERS

Driven via an independent A.C. servo the final draw roller accurately moves the film to the guillotine.

Features
- A.C. independent servo c/w brake.
- Air loaded nip with LH, RH & center control
- Gear driven upper
- Web jam-up detector system
- Four high powered static bars
- Segmental draw roller with adjustable fingers

13) SERVO DRIVEN GUILLOTINE CUT-OFF

The cut-off system is supplied with one servo drive to cut the pouches into their final size. This servo is electronically linked to the draw rollers and seal bars for optimum performance.

Features
- A.C. servo drive
- Extra lift
- Efficient blade change (setup blocks)
- Spare set of blades
- Blade lubricator

14) SERVO DRIVEN STACKER UNIT
The system is used to insure the pouches are stacked neatly on top of each other.

Features
- A.C. servo drive
- Repeat adjustment
- Easy removal for guillotine access

15) JOG INDEXER – CONVEYOR
The system indexes the stacks out at a predetermined count. The indexer will also lower automatically to accept larger stacks.

Features
- A.C. inverter drive index
- Jog, stack, shingle control
- Automatic servo driven lowering system to accommodate a 250 high stack
- Independent time/speed via PLC
- Jog indexer gate high lift series

16) CE GUARDING & PHYSICAL GUARDING
Machine is interlocked with light curtain guarding full length of the sealing system and guillotine cut-off. CE physical guard package.

17) CONTROL SYSTEM
The control interface utilizes a colour touch screen with on the fly adjustment to all parameters.

Features
- Colour touch screen
- On the fly adjustment
- Job storage/recall
- PLC control for all parameters
- Message center
- Heat control via PLC
- Alarm and Fault display

18) SPECIALS
- Colour – GN white.
- Machine mode I.D. lights.
- Counters and rate meters clearly visible.
- Supervisory access to cycles per shift. With key reset.
- Isolation transformer

GN supplies 3 pH isolated transformer

TECHNICAL *SPECIFICATIONS*

MACHINE RANGE OF PRODUCT:

Max. web width: 30” (915mm)
Min. draw: 4 ½" (114mm)

PRODUCTION OUTPUT:

- 4½" (114mm) draw x 5½" (139mm) envelope
  Up to 280 cycles per minute x 5 Lanes = 1400 envelopes per minute (Depending on material structure)
- 10½" (178mm) draw x 7" (178mm) envelope
  Up to 180 cycles per minute x 4 Lanes = 720 envelopes per minute (Depending on material structure)
- 8½" draw x 12" Zipper envelope
  Up to 130 cycles per minute x 2 Lanes = 2600 envelopes per minute (Depending on material structure)

PRINT REGISTRATION:

Machine operates more efficiently with tight tolerance, print variation 1/32" (.75mm) per 24" (600mm) is
acceptable.

AIR CONSUMPTION:

Consumption is based on the final machine configuration.

WATER CONSUMPTION:

NOTE: WATER MUST NOT BE BELOW DEW POINT. Consumption is based on the final machine
Configuration

ELECTRICAL SUPPLY:
A 3 phase isolation transformer is included with the machine. Primary voltage of the transformer is the customer supplied voltage.
Customer supplied voltage380/400 volt 3 ph
Secondary voltage I 220 volt 1 ph neutral and ground (North America)
II 220 volt 3 ph
III 480 volt 3 ph ground (servos)
GN machines are equipped with a non fused electrical disconnect. Any fused disconnects required by local electrical codes are the full responsibility of the purchaser and are not supplied by GN.

GN machinery meets CE European standards.

REMOTE ACCESS

Remote access has been included with this machine so the machine functions can be monitored on line by our technicians from our facility in Canada. This allows GN to efficiently service and assist our customer with any control issues they may experience.

TIME OF SHIPMENT:

Approximately 6-8 months after receipt of payment with order, ex works in Mississauga, Ontario, Canada
Actual delivery depends on backlog at time of order

TERMS OF SHIPMENT:

* Loading in truck or sea container: INCLUDED
Freight: EXTRA
Insurance: EXTRA

DUTY AND BROKERAGE:

Payable by Purchaser.

WARRANTY: As per enclosed "TERMS AND CONDITIONS OF SALE"

INSTALLATION AND INSTRUCTION:

No charge for up to 40 hours of service technician's 'on site' time. Travel time not included and not charged. Unloading, assembly and hook up to utilities is purchaser's responsibility. The technician's time on site is outlined as 1 day to verify re-assembly and proper reconnection of the machine. 4 days of operator training. Additional time will be charged @ $750.00/day.

TRAVEL EXPENSES:

Round trip economy airfare, hotel accommodation, and car rental (if required) - Payable by Purchaser.

OTHER CHARGES: All other charges such as consular papers (if required) are payable by Purchaser.

TERMS:

10%	with order
40%	design approval
40%	prior to dispatch after FAT on site
10%	30 days from installation sign off