1) QUADRUPLE UNWIND SYSTEM

Four single shaft unwind systems to unwind the inner & outer plys of film. The use of driven unwind systems gives smooth, trouble free web control at constant tension.

Features

- System holds 4 reels of film
- 32” (800mm) dia. x 46” (1168mm) wide
- 3” (76mm) dia. air shafts (total of 8)
- Safety chuck at one end of the unwind shaft
- A.C. driven center unwind
- Pneumatically actuated follower arm
- Roll end sensor
- Servo web guide system
- Start/stop/E-stop station

2) QUADRUPLE COMPENSATOR

The compensator system is designed to take the film from the unwind at a constant velocity and tension. The compensator allows the film to be processed intermittently for all the sealing processes.

Features

- System is 46” (1168mm) wide
- Non-friction style roller brakes
- Low inertia roller 2” (50mm)
- Regulated air loaded dancer arm assembly

3) STATIC CLING SYSTEM

The system is designed to cling the inner ply to the outer ply of both upper & lower film combinations. This minimizes air between layers, wrinkles and tension differences.

Features

- Charging system
- % charge control
- One bar for each upper & lower film set
- Guarding
- Air web spreader assembly

- Web spreader system for both upper and lower web sets

4) ENTRY DRAW ROLLER

Driven by its own independent servo drive supplies the web to the intermittent sealing section. The servo allows the operator to control the tension in the web at the insertion. By controlling tensions the web is flatter and moves more accurately for greatly reduced deviation of spout to seal dimension.

Features

- A.C. independent servo drive
- Gear driven draw rollers
- Pneumatically loaded rubber nip roller for upper web and lower web sets
- Web tension control from PLC input
- LH and RH and center air control
- ½” lift

5) WEB STEERING/SPREADER

One independent pneumatic electric web steering unit is supplied to help track off gauge films on narrow web, which may wander.

Features

- Easy side to side positioning with locator scale
- Open and closed air switch
- 1 system supplied
- Film edge sensor

6) INDEPENDENT HOLE PUNCH

Two separate hole punch stations with shark tooth cutters. Our punch system allows for quick changeover of punches.

Features

- System moves in repeat with insertion system
- Independent across web adjustment
- Vacuum draw off
- Punch: - sizes as per sign off drawing
- Two independent punches

- 3 punch sizes supplied

7) VALVE INSERTION SYSTEM

The system includes one unit for dual lane production. Mounted on structural steel X-Y frames with manual adjustment. Our systems allow for a manual insert of the fitment to maintain endless production with no scrap.

Features

- Two complete vibratory bowl system feeding insertion stations
- Direct table lift
- 2 elevator style hopper
- 2 vibrator spout feeder
- Two bowl only – one change set – other fitments optional
- Linear spout feed with low alarm
- Teflon changeout cassette for spout seal
- Individual seal parameter adjustment via PLC
- Automatic valve body insertion sensor
- Lower support belts
- Micro adjust seal head 1 cm
- Scales on decks

8) AUTOMATIC CAPPER SYSTEM

The system includes two complete systems for two-up production. Mounted on structural steel X-Y frames with manual adjustment. Both systems to be mounted to the machine on a common base.

Features

- elevator style hopper with exchange system
    - Vibratory spout feeders - 2 bowls – one cap style – one change set
    - Other caps optoinal
- 320° orientation
- Air blow off
- Improved escapement system
- Matches speed of insertion
- Gripper parts are Delrin (plastic) to avoid damage to parts

9) WEB STEERING/SPREADER

One independent pneumatic electric web steering unit is supplied to help track off gauge films on narrow web, which may wander.

Features

- Easy side to side positioning with locator scale
- Open and closed air switch
- 1 system supplied
- Film edge sensor

10) LONGITUDINAL SEALING STATIONS

This machine is equipped with three longitudinal seal bars.

Features

- 3 seal bars
- Seal side to side adjustment via acme screw
- Synchronize linkage
- Upper and lower seal include fixed lift 3” (76mm)
- Independent parameter adjustment via PLC for each bar
- 33” (850mm) long seal bars
- Single zone heat top and bottom
- PE option includes air blast cooling with regulation
- Belt style support/stripper
- Quick teflon scroll system on all bars
- Single hit sealing option
- Quick clip change insert system

11) WEB STEERING/SPREADER

One independent pneumatic electric web steering unit is supplied to help track off gauge films on narrow web, which may wander.

Features

- Easy side to side positioning with locator scale
- Open and closed air switch
- 1 system supplied
- Film edge sensor

12) MID DRAW ROLLER

Driven by its own independent servo drive supplies the film to the transverse sealing section. The servo allows the operator to control the tension in the film. By controlling the tension cross seal stretch is all but eliminated.

Features

- A.C. independent servo drive
- Air loaded upper draw roller with LH, RH & center control
- Gear driven upper
- Web tension control from PLC input
- Adjustable large dia. upper wheels complete with scale for setup

13) WEB STEERING/SPREADER

One independent pneumatic electric web steering unit is supplied to help track off gauge films on narrow web, which may wander.

Features

- Easy side to side positioning with locator scale
- Open and closed air switch
- Film edge sensor
- Attached to transverse sealing system

14) CROSS SEAL STATION

This machine includes one cross sealing station. The design overcomes all the problems associated with the production of PE film structures.

Features

- Repeat adjustment with pneumatic position locks
- Independent parameter adjustment via PLC
- 5 zone heat top and single zone heat bottom
- 46” wide sealing bars
- Synchronizing linkage
- Upper and lower bars have fixed lift 76mm
- Web clamp for PE film structures
- Air blast cooling with regulation
- Quick clip change insert system.
- Two (2) inserts included. Metal to rubber

15) SLITTING STATION

System utilizes 3 retractable safety blade unit to trim or slit the web.

Features

- Common adjustment ± 1”
- Independent air for each head
- Web support bars
- Scale for setup
- 1 spare retractable safety blade holder

16) EXIT DRAW ROLLERS

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

Features

- A.C. independent servo c/w brake
- Air loaded upper draw roller with LH, RH and center control
- Gear driven upper
- Web jam-up detector system with adjustable fingers
- Two high powered static bars
- Adjustable large dia. upper wheels complete with scale for setup

17) ROTARY SERRATING/CUTOFF SYSTEM

This unit is used in the production of endless pouches. The tear strength is adjusted via change out wheels. By changing the wheel clean cutoff pouches can be produced.

Features

- Pneumatic linear cylinder drive
- 3 blades supplied (customer to supply gap size required)
- Adjustable web width via proximity limits
- Shock absorbers
- Quick change blade system

18) INDEXER DELIVERY

System allows pouches to be shingled. It also can be run in a continuous mode while producing endless web product.

Features

- Adjustable speed control
- A.C. driven belt
- Independent timers via PLC
- Jog, shingle control

19) CE GUARDING

Machine is interlocked with light curtain guarding full length of the sealing system.

20) CONTROL SYSTEM

GN has adopted a very simple control philosophy which allows for on the fly adjustment to all crucial parameters. Job retrieval and custom skip are standard features.

Features

- Schneider electric
- Touch screen interface on remote arm (1 main & 1 insertion/capper)
- On the fly adjustment
- Triple servo control for web tension
- Custom skip function
- Job storage/recall
- PLC control all parameters
- Full documentation of all programs
- Message center - alarm & fault display
- Heat control (PLC/screen)

21) MACHINE COLOUR

GN White – RAL #9003

22) TECHNICAL SPECIFICATIONS:

Floor plan attached

23) PRODUCTION OUTPUT:

Actual production speed is dependent on type, quality and thickness of material used. It is expected that consistent, good quality, lay flat material will be supplied to achieve the maximum cycle rates achievable on this unit quoted. Samples of product and/or film expected to be produced/run on the configured machine must be supplied to GN prior to order confirmation.

24) ELECTRICAL SUPPLY:

A 3 phase isolation transformer is included with the machine. Primary voltage of the transformer is the customer supplied voltage.

Customer supplied voltage – _____ – Must be approved

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.

25) AIR CONSUMPTION:

Minimum 100 psi, 6.87 bar (Consumption is based on the final machine configuration).

WATER CONSUMPTION:

15 litres/minute. NOTE: WATER MUST NOT BE BELOW DEW POINT

26) CYCLE RATE

Based on this machine configuration up to 24 – 30 cuts per minute (48 – 60 bags per minute)

27) WARRANTY:

Per attached Terms and Conditions, except extended guarantee for 12 months

28) INSTALLATION AND INSTRUCTION:

No charge for up to 80 hours of service technician's 'on site' time. Travel time not included and not charged. Unloading, assembly and hook up to utilities & electrical re-connection is purchaser's responsibility. The technician’s time on site is outlined as 2 days to verify re-assembly and proper reconnection of the machine. Balance of time is production running and operator/maintenance training. Additional time will be charged @ $750.00/day.

29) TERMS:

10% with order

40 % after design approval

40% prior to dispatch – FAT at supplier

10% 30 days from the date on the installation – FAT at customer