

EXTRUSION COATING-LAMINATING LINE
BRAND: BELOIT –IMS –others
Year of fabrication: 1978 + several up-grading and
overhauling through the years including
a complete new main electric cabinet

Mainly for paper-cardboard

Still in operation in Western Europe in the original plant

- Max web width as finished product at the winder after trimming: 1600 mm
- Max speed: 400 m/min
- Production speed in relation with specific job and Pe coating thickness . Certain jobs can be performed at full speed .
- Possibility to coat paper or cardboard , to coat and laminate paper to cardboard or with Alufoil using Pe with MFI 7-7.5 .
- Paper min weight 30 gsm
- Cardboard max weight 600 gsm
- Alu-foil min thickness 7 microns
- Pe coating range typical capability from 10-12 up to 40-45 gsm
- Estimation time for start up of the line by one expert coater-man and one helper : 30-40 min (using existing timer to warm-up in advance the hot part of the line)

MAIN SECTIONS

PAPER UNWINDER

Shaftless designed suitable for paper OD max 1400 mm
Motorised clamping of the paper reel from soil level
At soil level a device to locate the reel on centreline
One direction flying splice change-over at full speed
Chucks available for ICD 70 , 76, 152 mm
Multipolar brake by RE
FIFE edge guider

CARDBOARD UNWINDER

Shaftless designed suitable for cardboard OD max 1800 mm
Reel lifting device under soil level to load the cardboard reel on the unwinding position
Chucks suitable for ICD 300 mm
One direction flying splice
FIFE edge guider
Corona pre-treater (26 A max)
Gas flame treater

ALU-FOIL or other web UNWINDER

Two position unwinders with drop splice capability at reduced speed
Max OD 800 mm

EXTRUDER-COATER SECTION

The extruder-die section is located on wheels for TD side movement
Stainless steel made hopper to convey the raw material into feeding section
Two extruders with screws OD 120 mm , each motor 150 kw
Flat die head
Chill roll face 1720 mm with mat surface finishing
Chill roll OD 770 mm
Tray to collect Pe out of the line
Possibility to move the roll stand horizontal (MD) and vertical to optimise the process and the polymer oxidation
Device to compensate cardboard bending

THICKNESS MEASUREMENT SYSTEM

Beta rays based system
True thickness profile to be used by the operator to adjust flat die head bolts on real time

CORONA TREATER

Post-treatment of the Pe coated size to increase wettability of Pe coating for further process
Produced by F&B

IN LINE EDGE TRIMMING

Two in line edge trimming by Helios , rotary knives pneumatic loaded on counter-knives
Pipes to collect trims (vacuum fan not included)

WINDER

Surface winder designed (Pope) for max OD up to 2000 mm
Shafted type with air shafts suitable for ICD 76 , 152, 300, 304
Flying splice (one direction only)
Device to slide out the air shaft from the finished reel
Electric hoist with hanger to bring back into the winder the shaft with empty core
Out-feed guides to receive the finished reel out from the Pope
Electronic built-in weighing device

WEB TRHEAD-IN CHAIN

The line is equipped with two motorised systems

MAIN ELECTRIC CABINET

Actually located in a separate room , completely made around 10 years ago .

DC drivers by SCS

Contactors, remote switches, relays by Siemens

TOTAL ELECTRIC POWER ON BOARD 580 Kw

ELECTRIC POWER currently used in production 300 Kw

COMPRESSED air required @ 8 bars

OVERALL LENGTH 25 m

LINE as it is where it is

DISMANTLING not included (an overhead crane is available to handle small parts)

ESTIMATION of TRUCKS necessary : 5

SPARE PARTS AVAILABLE : various including one chill roll and two rubberised pressure rollers

PRICE:..... Upon Request

We can provide at extra cost a specialised crew for dismantling-loading and eventual re-assembling at final destination . The producer of the actual electric main cabinet is available to provide any eventual service required during dismantling – assembling etc .