



TECNO INCOLLAGGI

THE INDUSTRIAL GLUING DIVISION OF GRIFAL TECHNOLOGIES

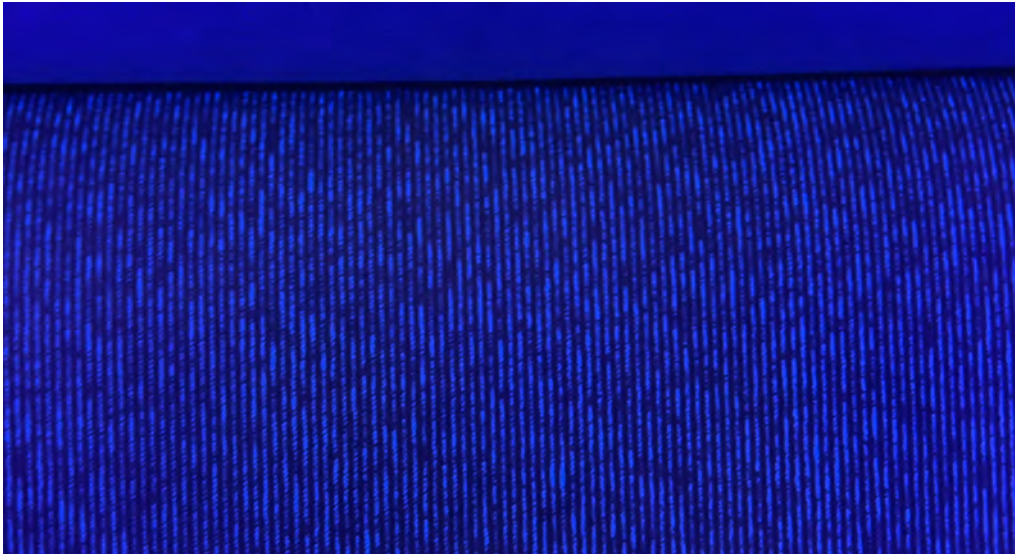
Advanced Solutions, Stronger Bonds



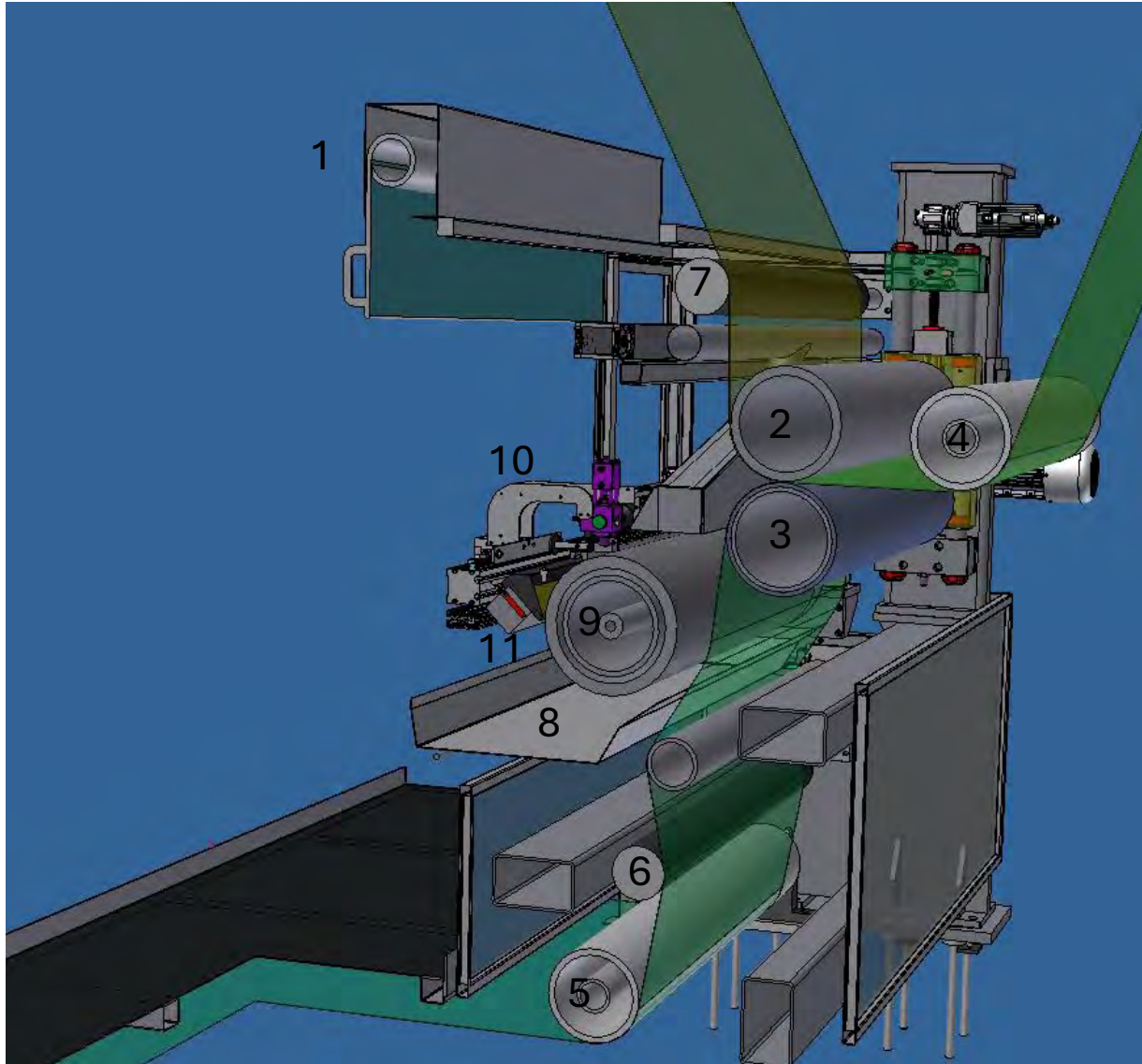
Lamination Line for Filter Paper Production

Lamination line designed for FILTER PAPER production, allowing bonding between smooth or corrugated paper and Meltblown / Nonwoven fabrics (TNT).

- **Bonding Technology:** Utilizes an engraved roller coater for adhesive application.
- **Maximum Spreading Width:** Ranges from 1600 mm to 2200 mm.
- **Covering Width:** Ranges from 800 mm to 2200 mm.
- **Maximum Line Speed:** 150 meters per minute.
- **Type of Adhesive:** Reactive Polyurethane Hot Melt.
- **Adhesive Quantity Applied:** 4-12 g/m² (with a tolerance of ±10%).

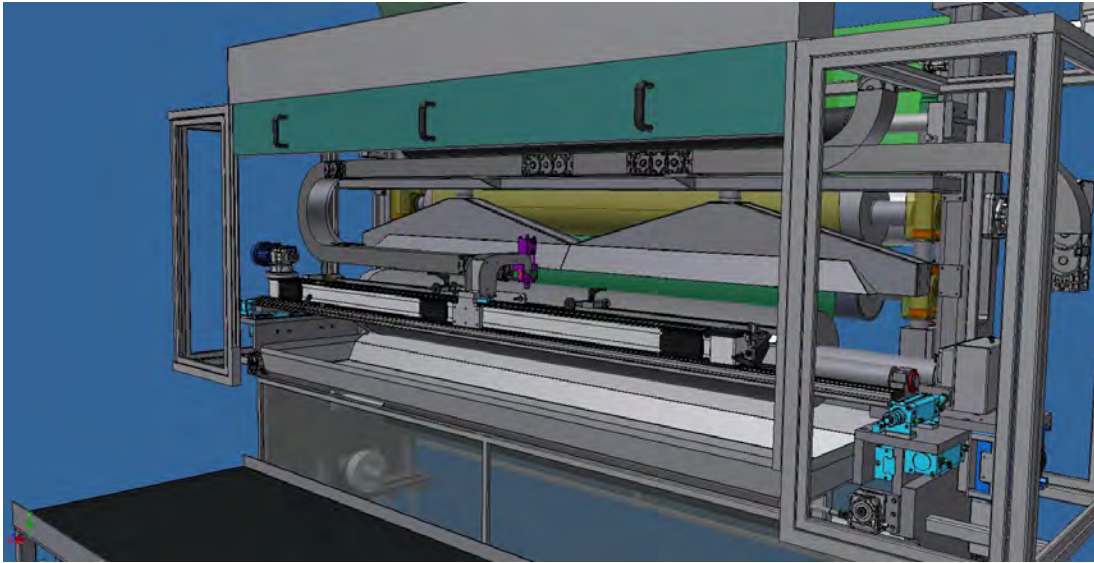


DESCRIPTION	VALUE
REEL MAX. WIDTH	1600 / 1800 / 2200 mm
REEL MIN. DIAMETER	400 mm
REEL MAX. DIAMETER	1800 mm
COATING SPEED	5 – 150 m/min
QUANTITY OF GLUE	4 – 15 g/m ²
REEL MAX. WEIGHT PAPER / TNT	3000 kg
ARM OPENING	1960 / 2160 / 2560 mm
ARM CLOSING	600 mm
SHOOTING FORCE PAPER / TNT	1600 N/m
GEAR BOX WINDER	12,87 i
POWER MOTOR WINDER	18,5 kW
TORQUE MAX. WINDER	3170 Nm
SHOOTING FORCE TOP UNWINDER (TNT)	600 N/m
DANCING ROLL “TNT” WITH PNEUMATIC CYLINDER	Ø 63 mm
DANCING ROLL “TNT” – PNEUMATIC CYLINDER PRESSURE	5,3 bar
SHOOTING FORCE BOTTOM UNWINDER (PAPER)	1000 N/m
DANCER ROLLER “PAPER” WITH PNEUMATIC CYLINDER	Ø 80 mm
DANCER ROLLER “PAPER” – PNEUMATIC CYLINDER PRESSURE	5,7 bar

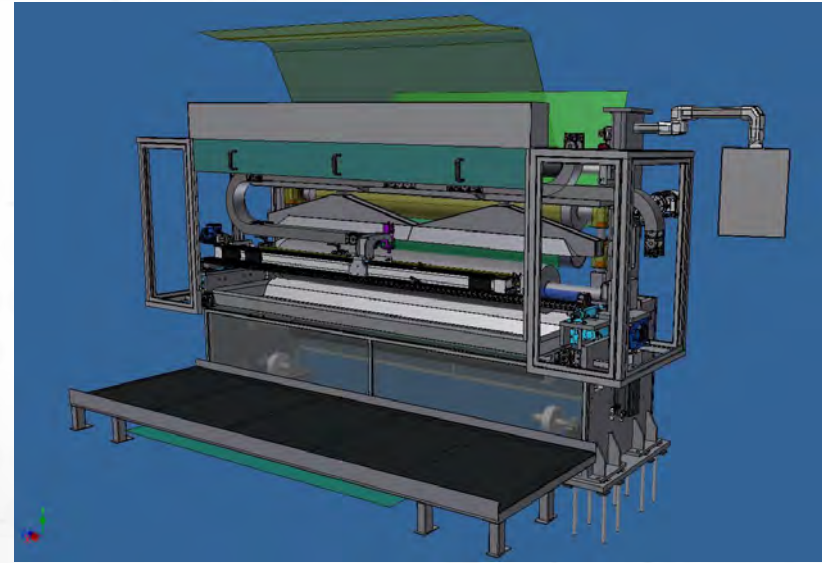


Section view:

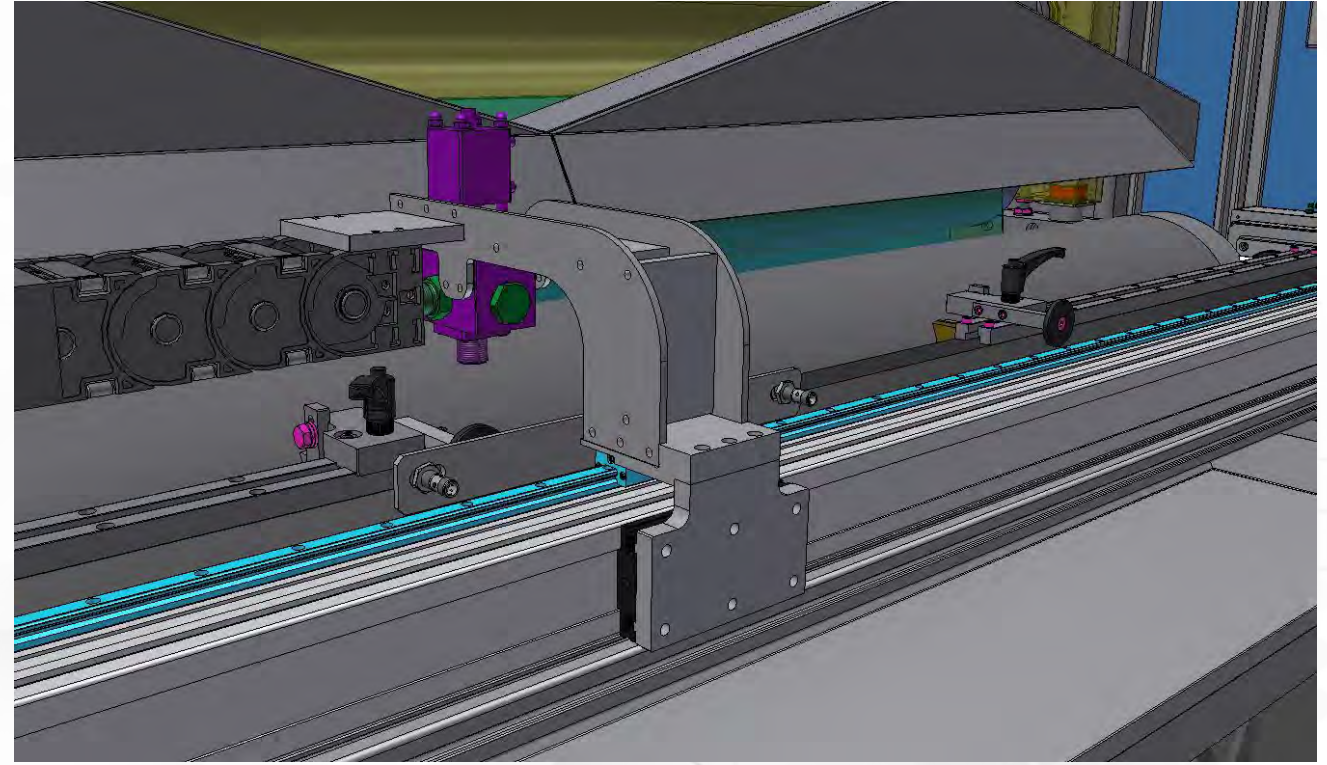
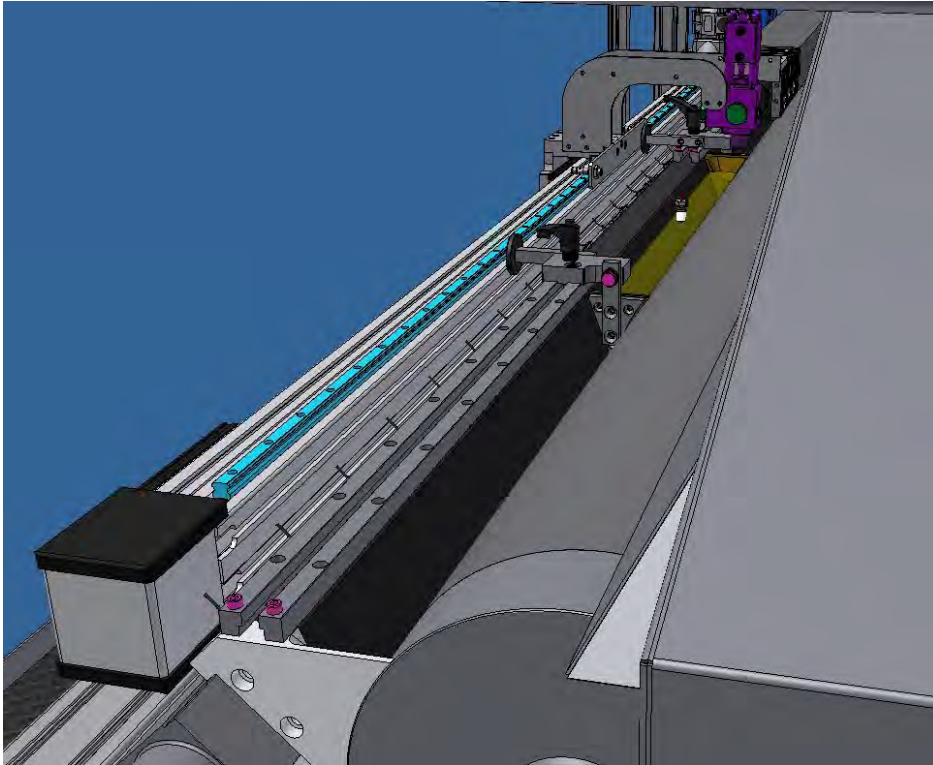
1. Roll-up front shutter
2. Motorized chrome calender roller
3. Motorized silicone calender roller
4. Outfeed non-driven rollers
5. Infeed non-driven rollers
6. Paper tension control banana roller
7. Fabric tension control banana roller
8. Adhesive recovery tank for cleaning operations
9. Spreader roller
10. Traversing axis for glue head/injector
11. Heated glue blade



- Adhesive recovery tank for cleaning operations
- Motorized traversing axis for glue injector movement
- Integrated fume extraction hood



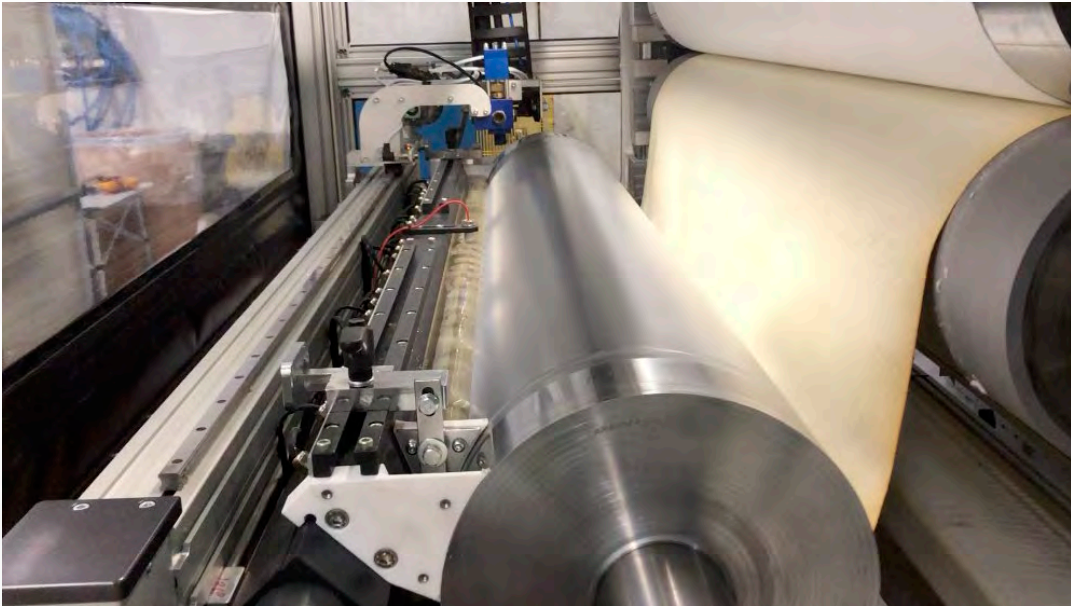
- Lateral safety guards made of aluminum profiles with laminated safety glass
- Front roll-up PVC shutter equipped with inspection windows and upward opening
- Adjustable glue retainers for precise control of the adhesive spreading width
- Motorized traversing axis of the glue injector
- Sensors for glue retainer position detection
- Automatic adjustment of the traversing stroke according to the spreading width



Glue feeding system by glue injector traversing axis:

- The axis is motor-driven.
- Two sensors mounted on the axis detect the position of the glue retainers and, as a result, limit the axis stroke during glue application.
- When the glue retainers are adjusted to increase the spreading width, the traversing stroke for glue application is automatically adjusted accordingly.

Roller Coater Details



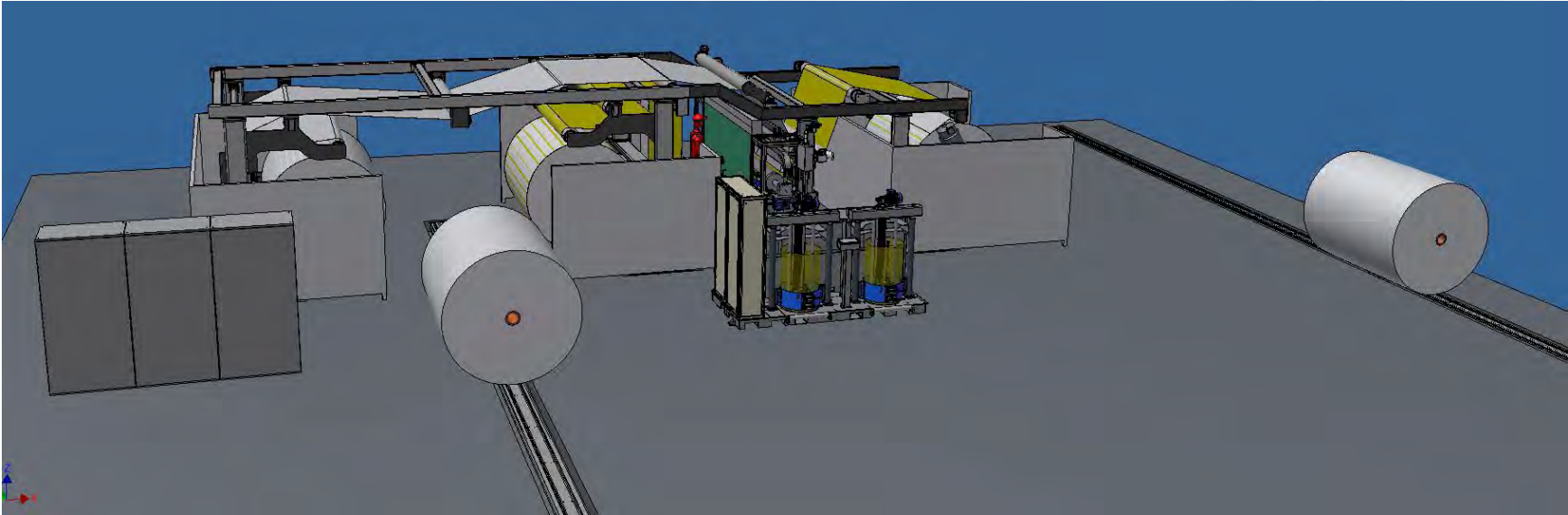
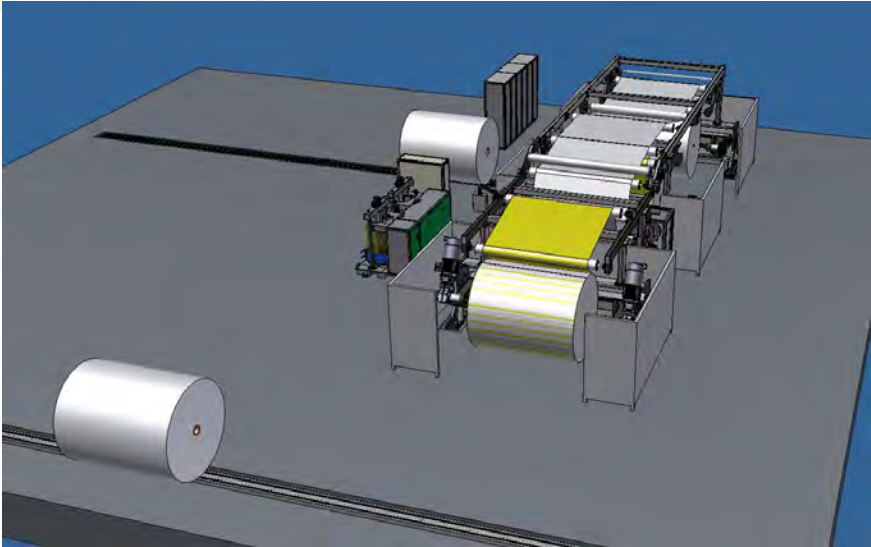
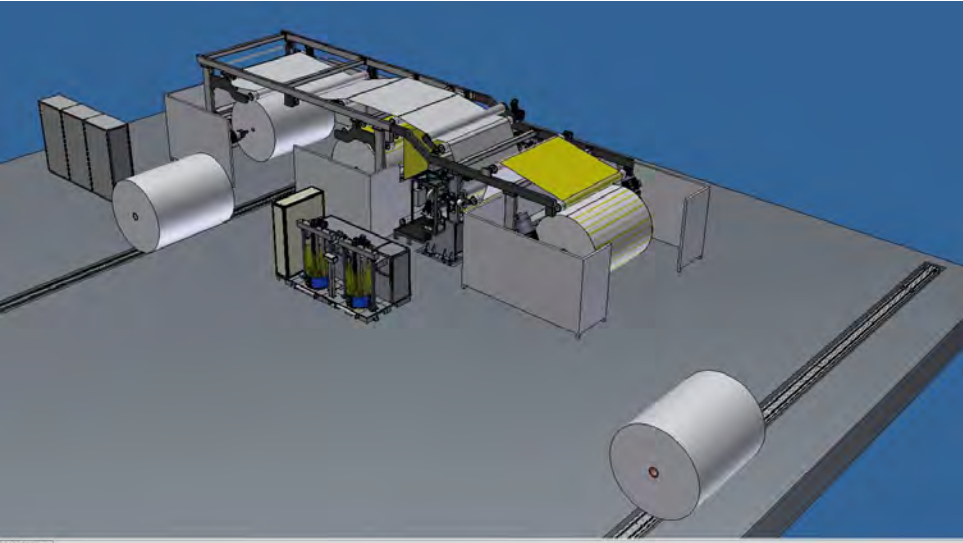


The **AZP NL** Series Drum Melters are designed for the melting and extrusion of Hot Melt **200 Kg** drums, such as:

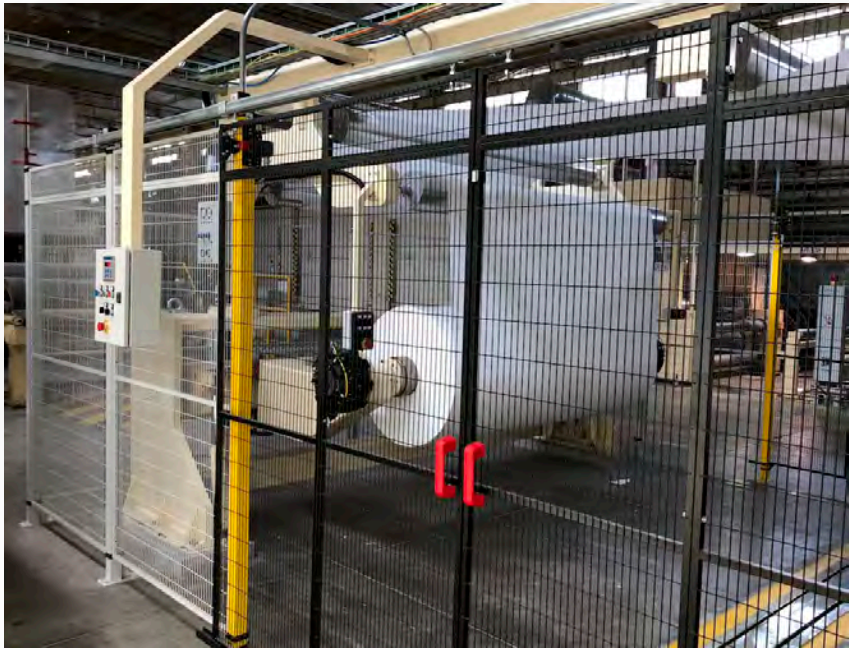
- **Reactive Polyurethane Hot Melt**
- **Reactive Polyolefin Hot Melt**

The **hydraulic plate lift system** ensures a high glue dispensing capacity with **limited heating energy consumption**.

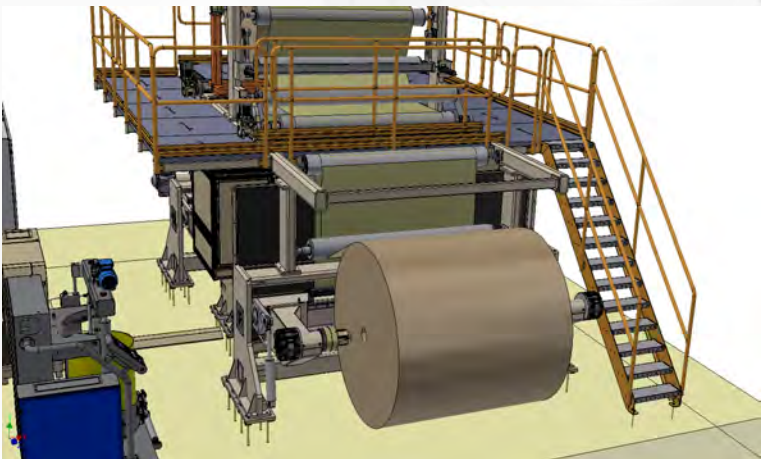
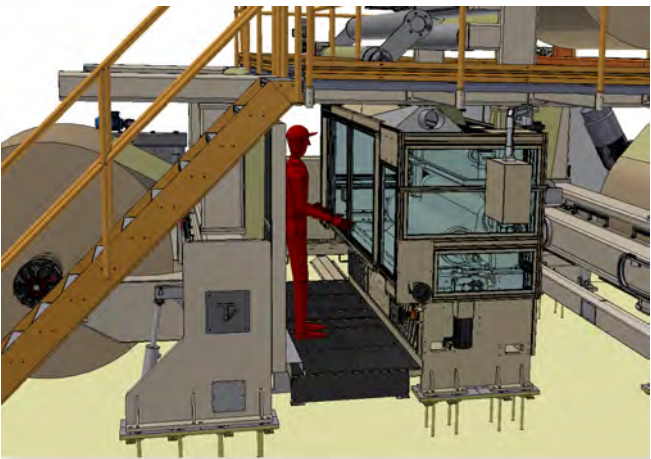
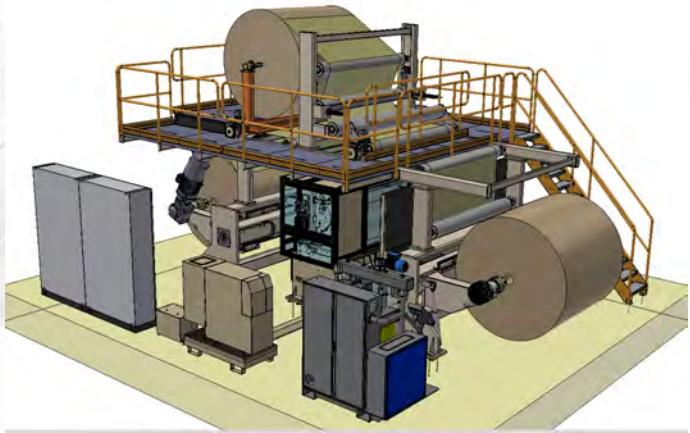
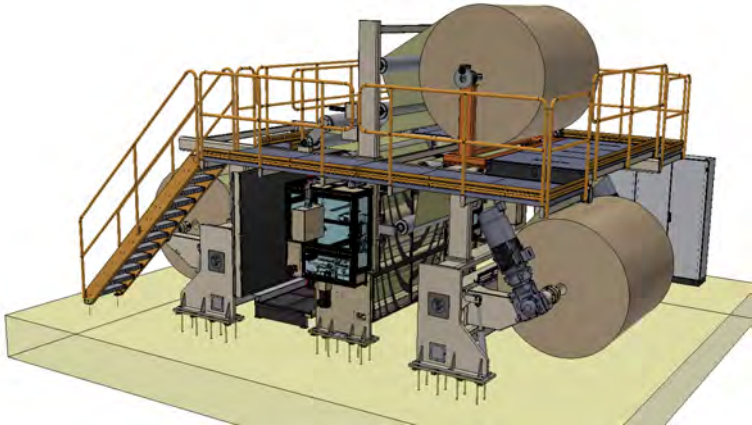
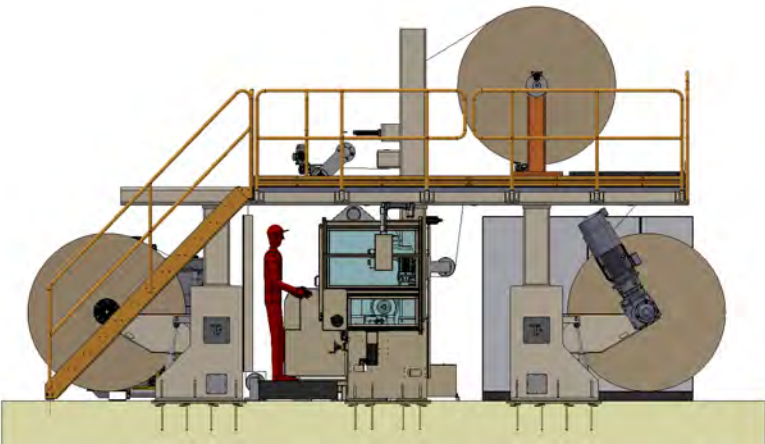
Lay Out Linear Lamination Line



Pictures Linear Lamination Line



Lay Out Vertical Lamination Line



Pictures Vertical Lamination Line





TECNO INCOLLAGGI

THE INDUSTRIAL GLUING DIVISION OF GRIFAL TECHNOLOGIES

Thank you for your attention

TIENG S.r.l.

Via Europa 2, 24055 Cologno al Serio (BG) – Italy

Web: www.tieng.it