
Baby diaper production line (Famecanica, Italy)

1. The Fa-X PROFIT is designed for baby diapers production.
2. It can produce diapers in three sizes: mini, midi, maxi.
3. Production speed – 250 pcs/min
Linear web speed – 125 m/min
Voltage – 380 V
Power demand – 170 kW/hour
4. Hot-melt glue applicator systems from ITW Dynatec
5. Electric energy and compressed air are used for diaper production
 - a. The production process is full-automatic:
The manual labor is used only for material feeding into the machine and packing the end products
 - b. Required crew to operate the line during a working shift: engineer – 1 person, electrician – 1 person, electronic engineer – 1 person, operator – 1 person, packer – 4 persons, foreman – 1 person, analyst – 1 person.
6. Control system with PLC (Siemens)
7. Overall dimensions (L*W*H): 29200*2900*2500
8. Year of production – 1999...installed 2000...production stopped last Year, but still installed and now free for sale

Manual, drawings and software for PLC are available.

Completeness list

1. Cellulose pulp rolls holder
2. MODE Mell to defibrate the pulp (pulp width 20 inches)
3. Mat forming unit
4. Double unwinding machine for upper fabric rolls and non-woven rolls
5. Mat volume reduction unit
6. Unwinding machine for upper polyethylene rolls with tension control and edge tracer
7. Mat crosscutting unit
8. Elastic leg tapes application unit (2x1)
9. Fabric sealing unit
10. Adhesive-tape loops application unit
11. Rotating die unit for polyethylene forming
12. Longitudinal folding unit
13. End product cutting-off unit (impact cutting)
14. End product cross-folding unit
15. Defective diaper detection unit
16. Horizontal stacker model RPP
17. Hot-melt glue applicator systems from ITW Dynatec: one melter S22 with Hot Melt Hose to apply the glue on the polyethylene (continuous); one melter M25 with hoses to apply the glue on the non-woven material and on upper fiber (continuous); one melter S22 with hose to apply the glue on the elastic leg tapes

18. Drive
19. Electricity closets, control panels, wiring, fan vacuum ducts, pneumatic ducts.
20. One control station with PLC (Siemens)
21. Arm crane for polyethylene rolls
22. Protecting guard
23. Manual fork-lift, tool box
24. Front adhesive tape applicator
25. SAP applicator
26. Dry filter bags



Pulp delivery



Cyclone Mill



Absorbing layer forming unit



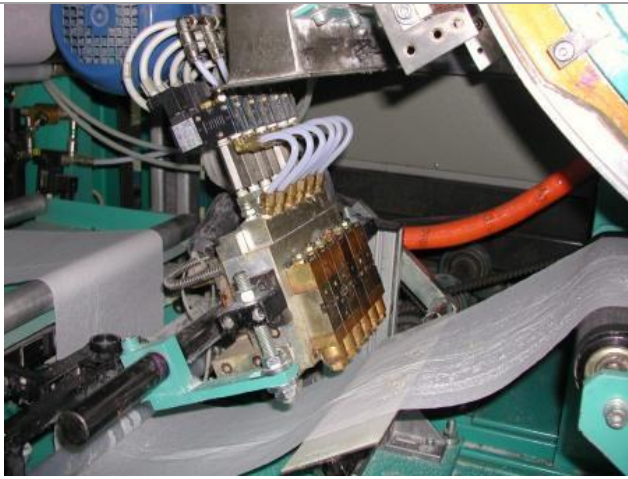
Multilayer absorbing layer forming unit



Moisture proof tissue-paper delivery



Hot-melt glue system



Glue applicator system



Dust separator



Breathable layer forming



Front belt application unit



Slicing device



Waste material collection



Stacker