

제1회 Corrugated Technician Work Shop '95 (講義 II)

Development Trend of
Material, Products and Technology
in Corrugated Industry

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I . Material Change in Corrugated Industry

- 1. No recycled paper in the past
 - ① Increase of recycled paper every year due to exhausting wood
 - ② Increase of virgin pulp price
 - ③ Saving of raw material
- 2. Change of flute combination
Double-double board(B/C in Europe)
 - ① Double-double (B/E) because of saving material and transportation cost
- 3. Continuous increase of white liner for high graphic printing

II . Change of Style, Form and Size of Corrugated Boxes

- 1. Most of boxes in the past are RSC, simple printed boxes, and large boxes for easy transportation
 - ① Die-Cut, high graphic printed boxes are required due to various customers' demand and packing automation in end-user factories
- 2. Enlargement of packing functions towards the sales promotion of products. i.e. Display boxes are coming more and more
- 3. Rapid replacement of solid board by E and F flute for saving material.

III . Development of Corrugated Packaging for Agricultural Products and Flowers in Europe

- 1. Usage of corrugated boxes in most agricultural fields : Even for cabbage, reddish and flowers, etc., coming from the soil
- 2. Increasing of corrugated boxes which are specially treated and designed for air, moisture control and water resistance.

3. Colorful flexo printings on the boxes for nice outlook.

IV. Continuous Development of Technology in Corrugator and Converting Machines

1. Corrugator

- ㉠ Extension of lifetime of corrugator Roll for constant board quality
- ㉡ Pressure rolless single facer (Guiding roll Type, Belt Pressure Type)
- ㉢ New development on the Slitter - Scorer and Mill Roll Stand including reel handing system in response to small and faster order change
- ㉣ Automatic heat control in Double backer Elimination of ballast rolls (Replacement by Thermopress bar or Air press)
- ㉤ Automatic warp angle control on the preheaters

2. Converting Machines

- ㉠ Enforcement of automation functions on every machines

- ㉡ Movement to adaptation of Laser engraved ceramic anilox roll and doctor blade (normel or chambered) on Flexo press and FFG.
- ㉢ Increase of installation of vaccum transport and drying equipment for high printing quality

V. Relation to Environment and Future of Corrugated Industry

1. Environment friendly industry → Expectation of Continious growth
2. Potential industry enough to extend its area to other fields according to research and development
3. Could be the weak industry to be easily eroded by Plastic industry
4. Risky business to small and midium corrugated factories because of real concentration of corrugated industries into big groups. (Smurfit group, Amcor group, Rengo group, Stone group, etc.)

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