

**Extrusion lines for
corrugated plastic sheet**



CARTONPLAST

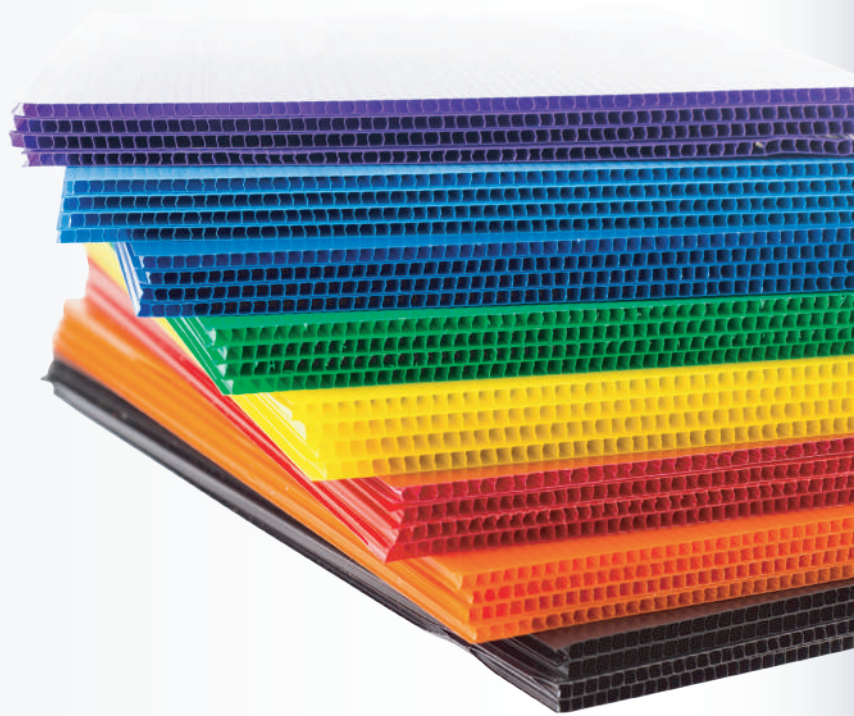
 **CIRCULAR
PACKAGING**

AGRIPAK
Plastic Processing Machinery

ONE EXTRUSION LINE: MANY FIELDS OF APPLICATION

MAIN CHARACTERISTICS OF CORRUGATED PLASTIC SHEETS which determine the diffusion of this material in dozens fields of applications:

- Excellent resistance to folding, tearing & traction
- High impact strength
- Lightweight, rigid & durable
- Not affected by chemical agents & mineral oils
- Water resistant & fire retardant
- UV resistant
- Low T° conductivity
- Corona treated grades for ink adhesion



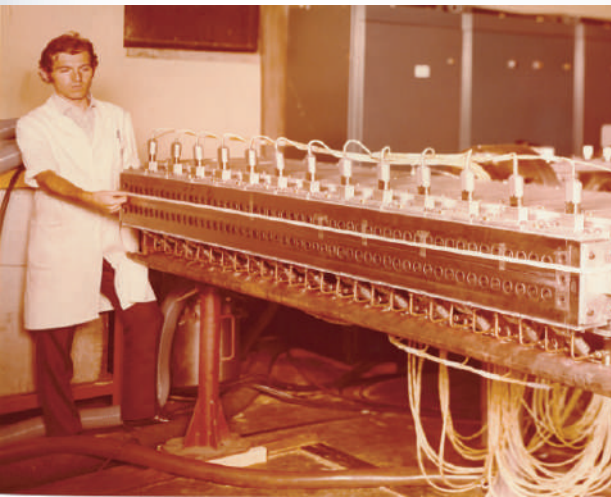
EXAMPLES OF APPLICATIONS



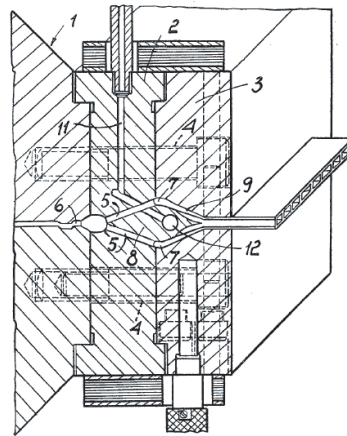
Marco Terragni (founder of AGRIPAK) was the first in the world to develop the idea of extruding a corrugated sheet in plastic back in 1971 and CARTONPLAST was the tradename that was using for the extrusion line for PP corrugated sheet.

In 1976 Mr. Terragni sold one of such extrusion line to Mr. Matteo Bressan, who asked to Mr. Terragni possibility to use "Cartonplast" as tradename for the extruded plastic sheet.

In those years Mr. Terragni was applying the patent related to the technology to extrude PP corrugated sheets.



U.S. Patent Sept. 12, 1978 4,113,411



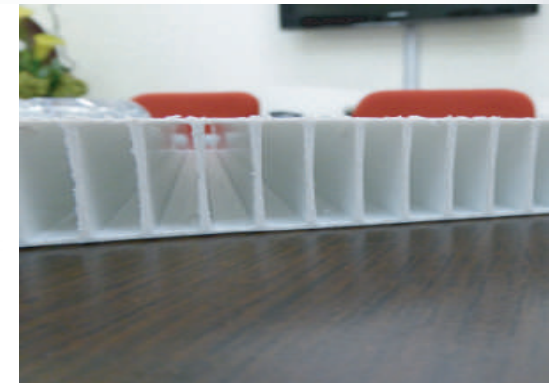
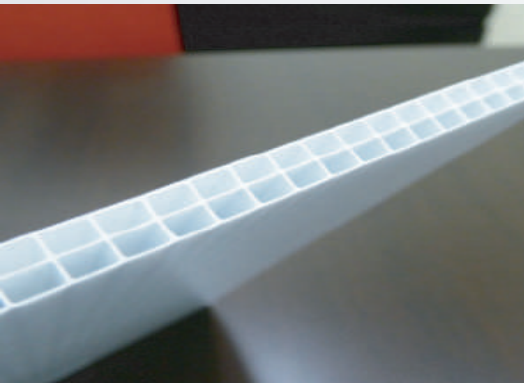
The demand for our CARTONPLAST extrusion lines has been continuously increasing, thus allowing us to lead in the sale of this kind of equipment, numbering among our clients, esteemed groups, operating worldwide with our single-layer/multi-layers extrusion lines.



Our CARTONPLAST extrusion lines can produce high quality fluted sheets (also called hollow profile sheets or twinwall sheets or corrugated plastic sheets) starting from **PP**, **HDPE** and **PET** raw materials, in different thicknesses, weights, widths, ribs shapes & colours, as follows:

- thicknesses: from 2 to 25 mm
- weights: from 200 to 5,800 gsm
- widths: from 1200 to 4,000 mm
- rib shapes: straight, sinusoidal, triangular, multi-walls, etc.
- colours: any

The hollow profile sheets extruded by our lines are widely used in the packaging field: they can be easily converted into any requested reusable, recyclable or flat-storage box, having different shapes & size, by means of specific automatic case-makers machines equipped with slotter or flat & rotary die cutters. Sheets can also be easily printed in different colours by flexographic, silk-screen or digital technique devices as well as being joined by sealing, hot-melting or staples devices.

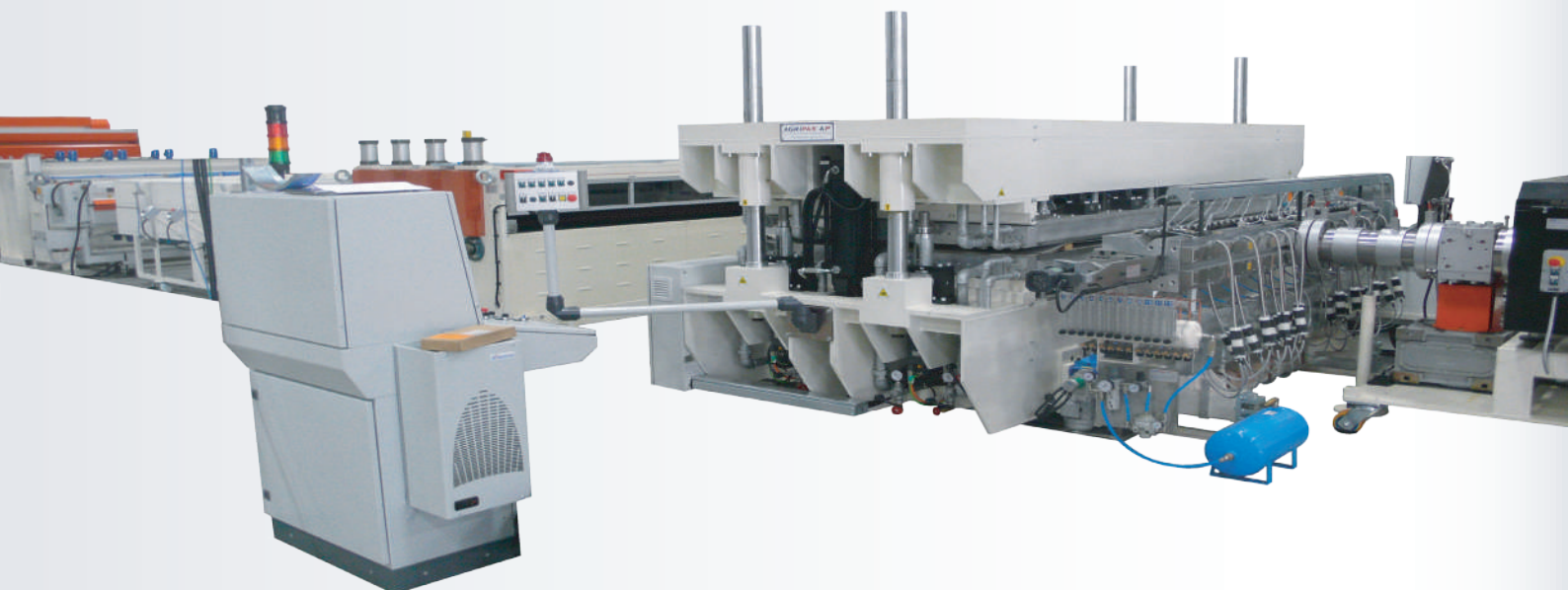


AGRIPAK developed a new series of hollow profile sheet co-extrusion lines: the CARTONPLAST_exp series. It is an innovative dedicated extrusion line family for the extrusion of Expanded PP (EPP) hollow profile sheets by a specially mixing recipe of standard PP with Chemical Blowing Agents (CBA).

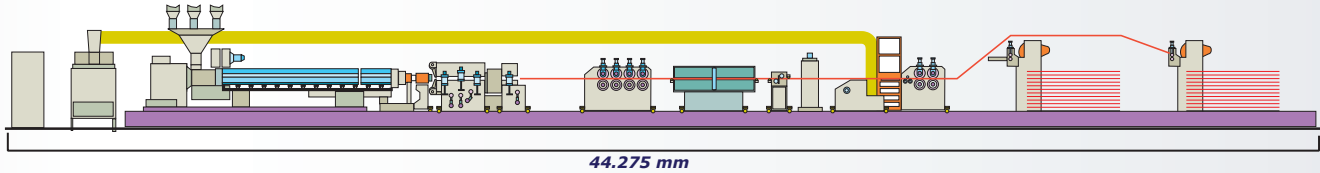
The Expanded PP (EPP) hollow profile sheets extruded by our *exp series* extrusion lines present:

- an improved superficial smoothness for advertising applications
- an improved impact strength for packaging and building applications
- a higher energy absorption for packaging and building applications
- an excellent chemical resistance for building applications
- a low thermal conductivity for food packaging applications
- an easy sealing for interlayer pads and food packaging applications.

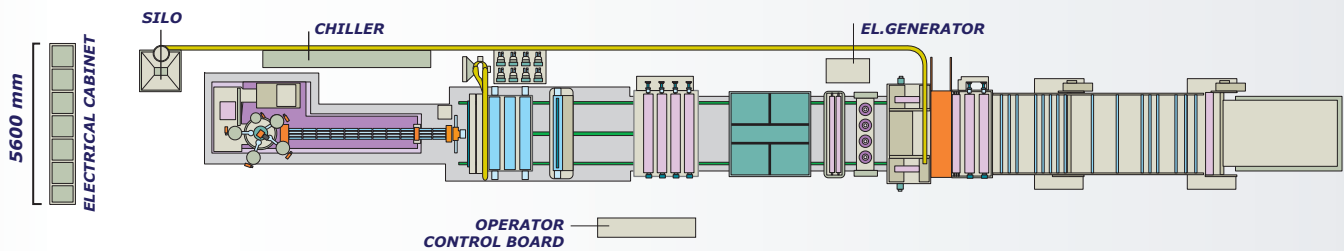
CARTONPLAST^{exp}
FOAMED HOLLOW PROFILE SHEET EXTRUSION LINE



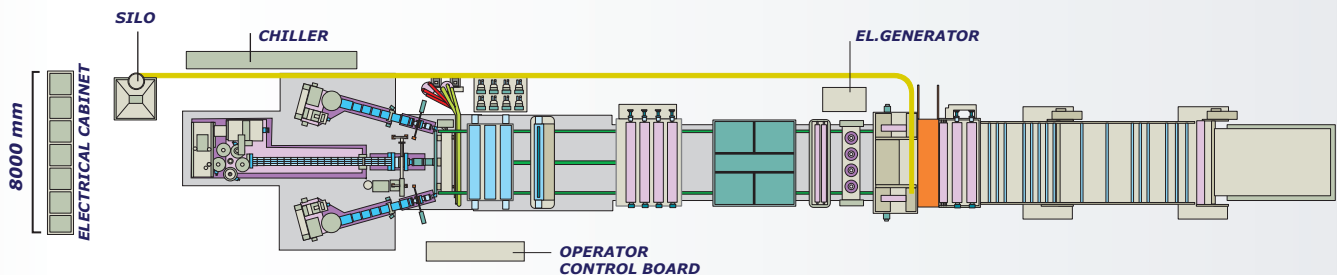
CARTONPLAST



MONO-EXTRUSION



CO-EXTRUSION



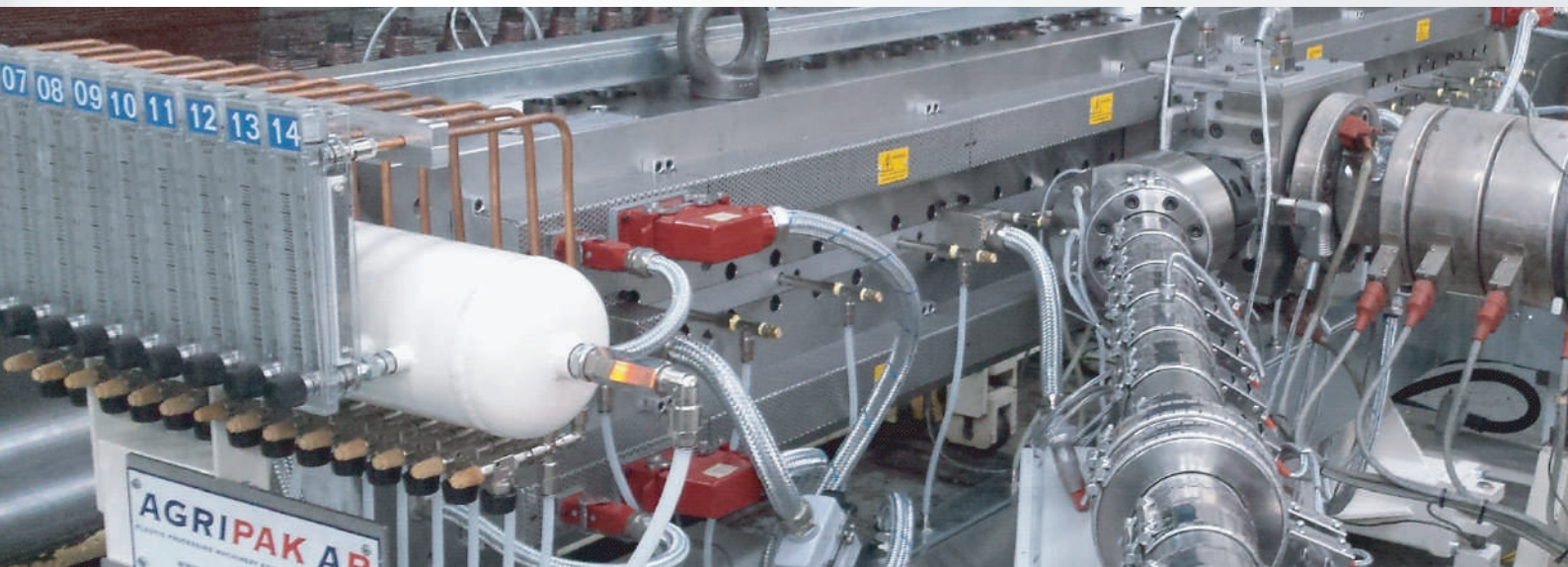
TYPE	1200	1600	2000	3000	4000
Extruder: "EOM"	120	120	150	180	200
Diam. Screw - L/D, mm	120-35	120-35	150-35	180-35	200-35
Useful width, mm	1200	1600	2000	3000	4000
Interchangeable dies: thickness, mm	2-25	2-25	2-25	2-25	2-25
Hourly production, kg (Depending on sheet thickness & gr/m2)	350	400	600	900	1200

The CARTONPLAST series is equipped with the SIEMENS CPU series 1500 and the whole production process is supervised through a touch operator panel managed by the software developed by AGRIPAK technicians on a SIEMENS TIA PORTAL platform.

Through the touch panel, the operator can quickly change all the process parameters, in order to **quickly find the optimal configuration to extrude sheets of different hollow-profile, thickness, weight and size.**

The CARTONPLAST series is also equipped with an industrial router that provides complete remote access to the PLC's process data : allowing our technicians to perform remote assistance and to our equipment to interface (by our BI-BOX technology) with the process datas, with the interesting possibility of sharing & integrating the same datas with the most common internal management software.





AGRIPAK turnkey service is focused on the final product, allowing its customers worldwide to produce more than 70 different products among 13 different business sectors. This means AGRIPAK is ready to offer its customer a 360° know-how, comprising: the supply of any full-automated Extrusion line on request, as well as the whole product production-flow technology ; by acting as a general contractor on any customer's specific project.

And if You're looking for a customized technical solution don't worry, AGRIPAK technicians will do their best to provide it. The production plant is equipped with high-precision CNC working stations suitable for highest microtolerance production, while the quality control department, located in special 20°C climatic rooms, is equipped with the most technological updated devices such as electronic cutting-gauge, optical collimators and transfer measurement systems.

All AGRIPAK lines and machineries are designed and built in accordance with the long dated AGRIPAK know-how, in the various final products-production flow. All parts and components are strictly assembled inhouse to assure highest reliability on production performances.



CARTONPLAST



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