



Automation and Packaging for Pipe Extrusion Lines

IPM (Italian Plastic Machinery) represents a consolidated reality worldwide in the production of machines for the extrusion and packaging of plastic pipes.

IPM has invested and is still heavily investing in this area, studying, and creating customized solutions based on the specific needs of customers, paying particular attention to the optimization of the production area, and to energy saving.

Thanks to its new automatic packaging systems, it is now possible to complete the extrusion lines by collecting and packing pipes in wooden frames, in cardboard boxes, iron boxes, in polyethylene bags, plastic saddles, etc. conciliating production and marketing needs in the best way without neglecting logistics and available spaces in the company.

The real challenge is precisely to increase the level of automation

of the plants and their production capacity, improving product quality and reliability constantly, ensuring space-saving solutions and enhancing safety systems to protect machine operators.

All this required a remarkable commitment and study by IPM, leading IPM engineers to consider all the latest generation of technological devices such as: Cartesian systems, anthropomorphic arms and vacuum lifting systems that are able to move loads quickly and ergonomically in any position.

In fact, the reduction of logistic times is forcing companies to automate processes to achieve maximum productivity. An example of this is the spread of industrial robotic arms, because they accelerate all those repetitive activities that in the past were carried out by operators.

Actually, this technology does not just improve efficiency in production and logistics, but it also allows heavy objects to be loaded, and high-precision operating cycles to be carried out automatically, without any hu-



man intervention.

One of the latest packaging plants that we have created and that was warmly welcomed is our new packaging system type RMC that is characterized by a series of Cartesian arms that are able to pick up cardboard sheets, prepare the packaging, select, collect, and deposit each single pipe according to its length and with opposite socketed ends, close and tape the boxes, weight-

ing them and, if compliant, label and palletize them. Obviously, pipes with bigger lengths are collected, selected and inserted in special plastic saddles, and the resulting pallet is put by means of vacuum lifting systems inside wooden frames, all automatically and quickly, with precision and with maximum safety.

These systems are also available for big pipe diameters (even pipe diameter 400 mm, pipe length 3 m).

DROP LINE

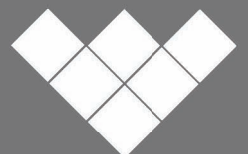
Linee automatiche di estrusione per la produzione di tubi di irrigazione a goccia
Automatic extrusion lines for the production of drop irrigation pipes



Profile Dies s.r.l.

via delle Industrie n. 2
Gornate O. (VA) ITALY
+39 0331 855 010
info@profiledies.com

www.profiledies.com



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EXTRUSION
MACHINERY