

# 针对塑料管材制造企业，意大利挤出机制造商把注意力集中到工业4.0

## Italian Extruders Maker focuses on Industry 4.0 for Plastic Pipes Companies

世界正在进入工业4.0时代，计算机和自动化将会以全新的方式结合起来，机器人技术与配备了自动学习算法可以理解和控制机器人的计算机系统远程连接，只需要非常少的人工输入操作。

*The world is going to enter Industry 4.0, in which computers and automation will come together, in an entirely new way, with robotics connected remotely to computer systems equipped with machine learning algorithms, that can understand and control the robotics with very little input from human operators.*

工业4.0-更高的质量同时降低了成本

**INDUSTRY 4.0 – Higher quality & costs reduction**



工业4.0引入了被称为“智能工厂”的理念，也就是网络化的物理系统监视工厂的物理过程并作出分散式的决策。物理系统成为了物联网，通过无线网络与人类实时通讯交流与合作。

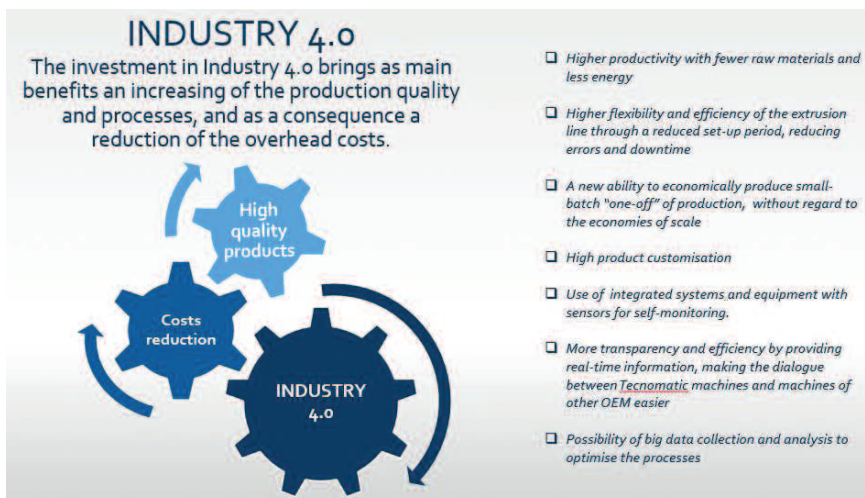
就这一点而言，Tecnomatic在设计、实施和系统整合过程中支持其客户，旨在支持新的数字化工业革命，向塑料管材制造商提供完整和协调的产品综合解决方案、工业软件和自动化技术。

系统提供适合于管材挤出机群的简单的用户友好的程序。通过机器的EPC(挤出过程控制)系统，若干台机器及周边设备可通过统一的用户接口互相连接及关联在一起进行工作，各单元之间可以相互作用。通过这种方式，全部

制造过程，包括原料加料、温度控制、同步运行等都实现了协调和可追踪化。

另一个重要方面是所有参数都被集中记录和监视。系统不仅仅进行能源监视，同样能将生产线加工过程中的数字和数据转换成有价值的信息。这样就可以对生产线的性能进行最佳化分析。从轮班长要用到的关键性能显示信息直到管理人员要用到的生产线性能的清晰描述均可获得。

工业4.0完全符合“智能工厂”的理念，所有数据，包括预防性维护和服务的参数或者报警信息都可以通过个人计算机、服务器或者可移动终端设备从网络或互联网进行监视。



Industry 4.0 introduces what has been called the "smart factory," in which cyber-physical systems monitor the physical processes of the factory and make decentralized decisions. The physical systems become Internet of Things, communicating and cooperating both with each other and with humans in real time via the wireless web.

In this regard, Tecnomatic supports its customers during the design, the implementation and the integration of systems aimed at supporting the new digital industrial revolution, providing to the plastic pipes manufacturers a complete and integrated portfolio of products, so-

lutions, industrial softwares and automation technologies.

The system provides a simple user-friendly program for the networking of extrusions pipes lines. Via the machine's EPC (Extrusion Process Control) system, several machines and peripherals are connected and linked together to be operated via a uniform user interface, which enables interaction between the individual appliances. In this way, the entire manufacturing process, including material

feeding, temperature control, synchronisation is coordinated and tracked.

Another important point is having all parameters centrally recorded and monitored. The system allows, not only to carry out energy monitoring, but to convert numbers and data into valuable information on the processes within the line. This enables optimal analysis of a line's performance. From the relevant key performance indicators for shift supervisors up to the clear presentation of the line

performance for the management.

Perfectly in line with the concept of "smart factory" of the Industry 4.0, all data, including preventive maintenance and service parameters or alarms can be monitored via internet or intranet, to Pc, servers or to mobile devices.

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