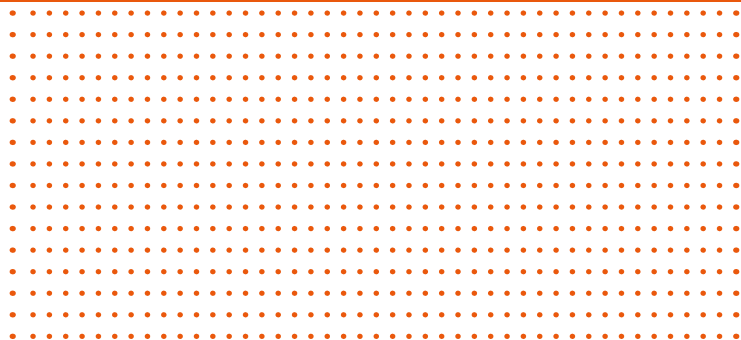


GREEN X50 MODULE



REDEFINING PLASTIC PROCESSING



GREEN MOD ULE

Introduction

The **Green Module** is the flagship of **BRIXIA PLAST**'s proposal. It is a preassembled plasticising unit complete of every component necessary for the transformation of plastic polymers already wired and ready for a quick "Plug and Play" installation.

The **Green Module** is equipped with state-of-the-art components that allow to achieve outstanding qualitative results with a special attention to reducing energy consumption.

*By using a **Green Module** the goal is to minimize heat dissipation as much as possible.*

Valuable strengths

01. EFFICIENCY

Extremely **short installation time** (1/4 compared to the replacement of individual components) with consequent reduction of downtime of the machine.

02. ENERGY SAVING

High-efficiency energy saving insulation covers (up to 30%).

03. PRODUCTIVITY

The high performance Multicompound Screw **increases productivity up to 30%.**



Technical Data

HIGH QUALITY BARRELS AND SCREWS

From nitrided to bimetallic barrels, from hardened to sintered screws, **each solution is studied to satisfy any need**, based on processed polymers and required performances.

HIGH PERFORMANCE MULTICOMPOUND® SCREW

- **Increase productivity up to 30%**
- Suitable for a wide polymer range (including PP, PE, PC, ABS, PC/ABS, PMMA, PA6, POM, etc.)
- **Waste reduction**
- **Better homogenisation of the melt**
- **Better quality of the final product**
- **Reduction of the energy torque**, required for the screw rotation
- **Reduction of melt temperatures**
- **Reduction of plasticizing time**

INSULATION COVERS

High-efficiency **energy saving** (saving up to 30% of energy)

BRIXIA PLAST can produce Plug and Play Green Modules for every brand of injection moulding machine.



Case Study

may 2021

Test information

Machine: Arburg 570C 2000-350
Screw diameter: 40 mm
Polymer: PC black
Italian company, part of a French corporation, leader in the production of electrical equipment.

Energy consumption comparison

DESCRIPTION	kWh / shift	shifts / year	MWh / year	€ / year
Arburg injection unit	101	720	72,72	11.271 €
Green Module Brixia Plast	89	720	64,08	9.932 €
Results	-12	-	8,64	- 1.339 €

Productivity comparison

DESCRIPTION	pieces / shift	kWh / shift	Wh / piece	% piece
Arburg injection unit	1.476	101	68,428	
Green Module Brixia Plast	1.745	89	51,003	
Results	+269	-12	-17,425	-25,47%

Efficiency comparison (1 year)

DESCRIPTION	kWh / year	pieces / year	kWh / piece
Arburg injection unit	72.720	1.062.720	0,0684
Green Module Brixia Plast	64.080	1.256.400	0,0510
Results	- 8.640	+ 193.680	- 0,0174

Condition 1: the market can “absorb” the production surplus, production is at maximum speed.

Sale price (hypothetical): € 0.10

Electricity cost: € 155 / Mwh

Results:

- **Pieces / year: + 193.680**
- **Income / year: + 19.368 €**
- **Energy / year: - 1.339 €**

Condition 2: the market cannot “absorb” the production surplus, production is stopped when the initial target is reached.

Sale price (hypothetical): € 0.10

Electricity cost: € 155 / Mwh

Results:

- **Pieces / year: + 15,4%**
- **Shifts / year: - 111**
- **MWh / year: - 18,52**
- **€ / year: - 2.870,60 €**



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