

# Increasing presence in the European concrete industry market

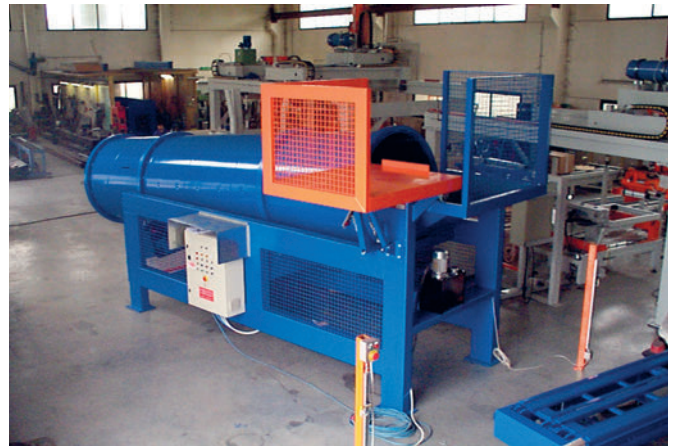
Since its foundation in 1991, Penta Automazioni Industriali has acquired skills and competences that let them develop a strong technical background by designing automatic solutions for the concrete and natural stone industry. Up to year 2000, the most important market for Penta has always been the Italian one. Then, starting from year 2000, Penta has enlarged and reinforced its presence on the global market thanks to the growing reliability of its job. Indeed, the company continued improving its technology and spreading its influence all over Europe.

## 2000 - First steps in Europe - Spain

Penta first plant in Europe was a Caleidos plant, installed in the north of Spain. The plant was basically a handling system for repackaging rumbled concrete products.

The growth of the Italian company in the European concrete industry led it towards the following countries: Greece, Belgium, France, Germany, Netherlands, UK, Switzerland.

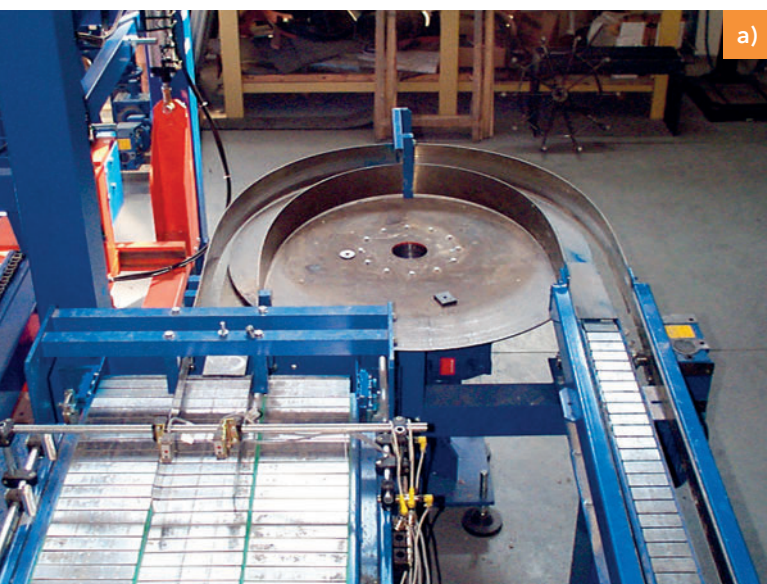
The most requested automatic solution was the ageing "Caleidos" plant, in all its variations, semi-automatic and fully automatic treatment installation.



2000 - Greece Caleidos plant

## 2000 - Greece

The plant installed in Greece was a Caleidos drum with a tipper for the in-feeding. The tipper is used to turn the pavers from a pack (previously loaded with a forklift) into the cylinder to be aged.

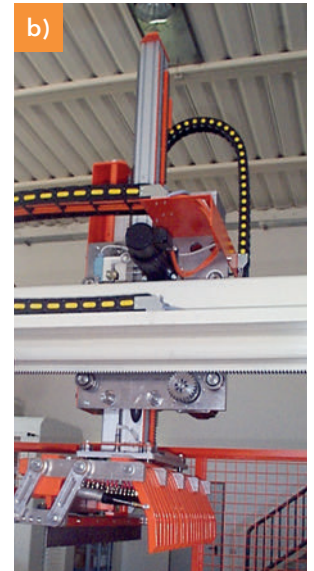


2000 - Spain Caleidos plant





2001  
Belgium  
Caleidos  
plant



## 2001 - Belgium

The Caleidos plant installed in Belgium in 2001 was a completely automatic plant, and the supply included one of the first scanning systems for ejecting the broken pavers.



## 2003 - Netherlands

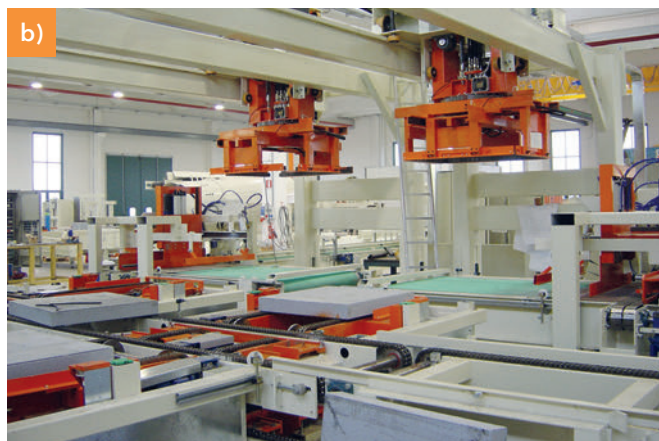
After having been committed in some other Caleidos ageing and repackaging plants in France and Germany, a huge Caleidos plant solution with multiple lines in parallel was requested by a Dutch customer. It was a great challenge for Penta, but the result was incredible.

More than 500m<sup>2</sup>/hour can be rumbled and repackaged with scanning systems for ejecting the non-complying pavers. The plant can run all the for four lanes at the same time or, on the contrary, run them independently. After 20 years the plant is still running at its high capacity.

## 2005 - United Kingdom

Since 2005, also United Kingdom started to trust in Penta technology and skills. In addition to some Caleidos ageing and repackaging plants, Penta was entrusted with the design of different plants, like the ones here below.

*2003 Netherlands Caleidos plant: Ejector after the centrifuge*



*Stacking grippers equipped with four jaws*

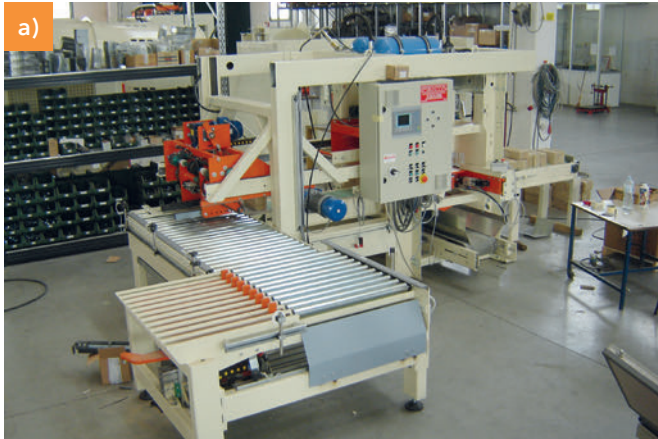
*Vision of the complete system*



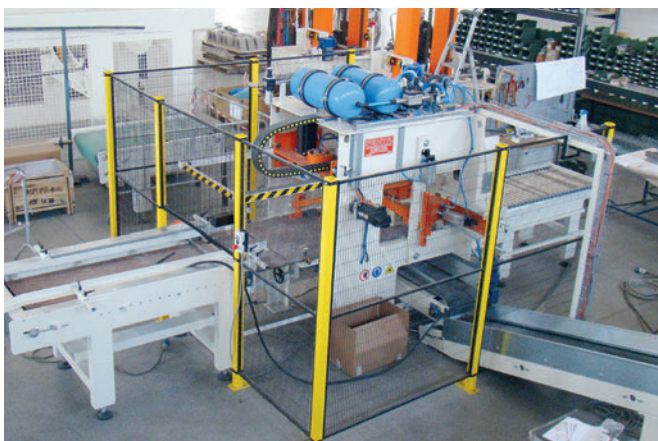
## 2007 - Nippy - Pitching machine

This is a completely automatic machine with a compact design used to give a pitching effect to the concrete products. It can be used as a stand-alone machine or it can be placed after a splitting machine. The final effect is elegant and natural.

In recent years, another English company decided to invest in a Nippy machine. It was 2020.



2007 - Nippy - Pitching machine



2020 England: Nippy as a stand-alone machine



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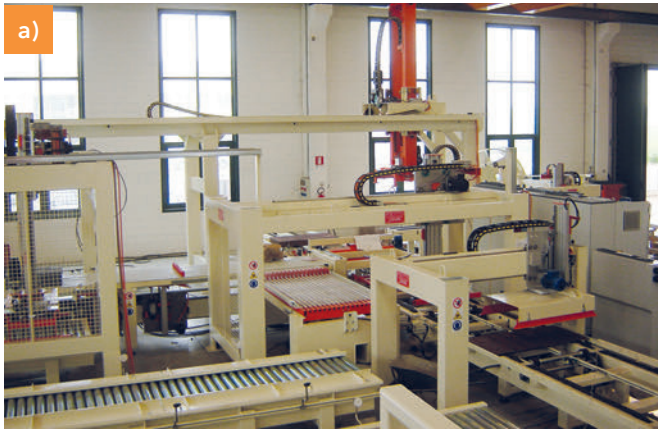
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2007 England: Roller-lines, walking beams and gripper



Finger car



Complete production plant

### 2008 - Production plant

The same company that bought the Nippy machine in 2007, commissioned a complete production plant to Penta the following year.

In the last few years Penta's influence in Europe has spread to some new countries like Romania, Hungary, Austria and Poland.

A Romanian customer asked Penta for two Caleidos systems in 2019. They were so satisfied that they decided to commission other two systems like the previous ones at the end of 2021.

At the same time, in 2019, Penta studied other two solutions, both for fully automatic ageing systems, for new plants to be set up in Austria and Hungary the following year (2020).

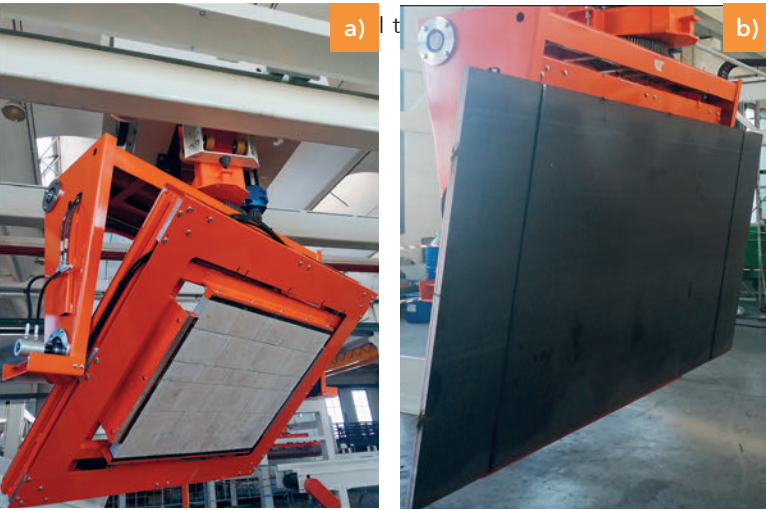
In 2020 a known customer in Poland asked for very special solution. It was a system never studied from Penta and that's why the company was glad to get involved to find a perfect solution that would meet customer needs.



Romania: 2019



2021



2020 Poland

was basically a handling system for in-feed and unload two treatment machines. The key point was the necessity to pick up different products such as complete layers (to be turned by 180°) and big tiles. Penta solved this matter designing two different heads to be changed on the same gripper frame. In this way it was easier to manage all the system faster and in the most compact possible space.

However, this spread in new countries has not prevented the company to strengthen its presence in other countries where it was already known and appreciated. Indeed, in 2021 Penta sold a new fully automatic splitting line in Spain and in 2022 sold a completely new ageing Caleidos plant in Netherlands, for a customer who bought a system from Penta many years ago. ■

## FURTHER INFORMATION



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