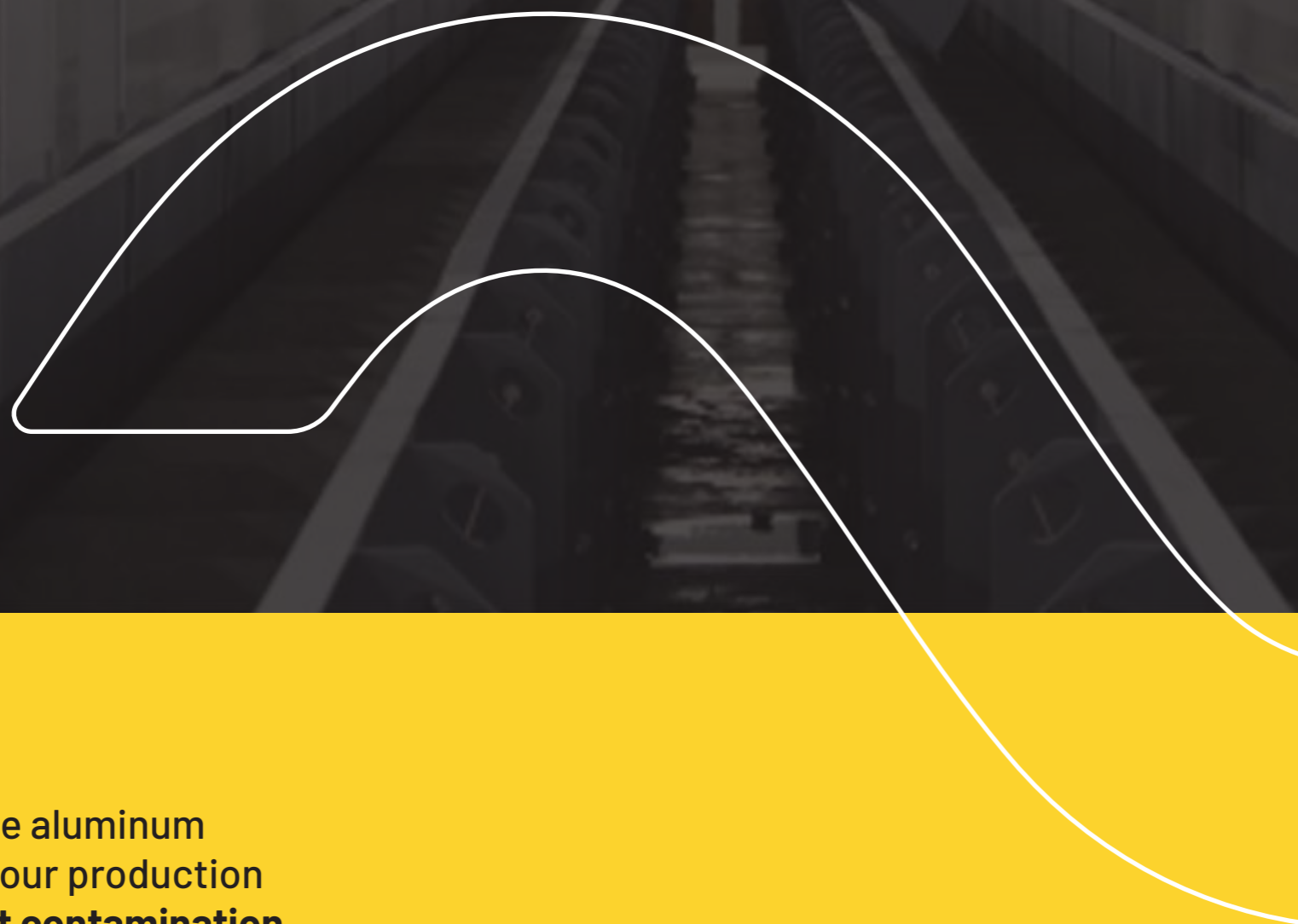


# SHAPING THE FUTURE

With the rise of **electric vehicles (EVs)**, aluminum becomes a key material. It contributes to reducing the weight of EVs by up to 50%, improving their energy efficiency. Despite being more expensive than iron or steel, **its characteristics make automotive manufacturers go for this material.**

In this scenario, the main challenge faced by these manufacturers is **ensuring the non-contamination of both materials in their stamping processes**, which makes easier to recycle and reuse materials.



How to integrate aluminum stamping into your production line and **prevent contamination between materials?**

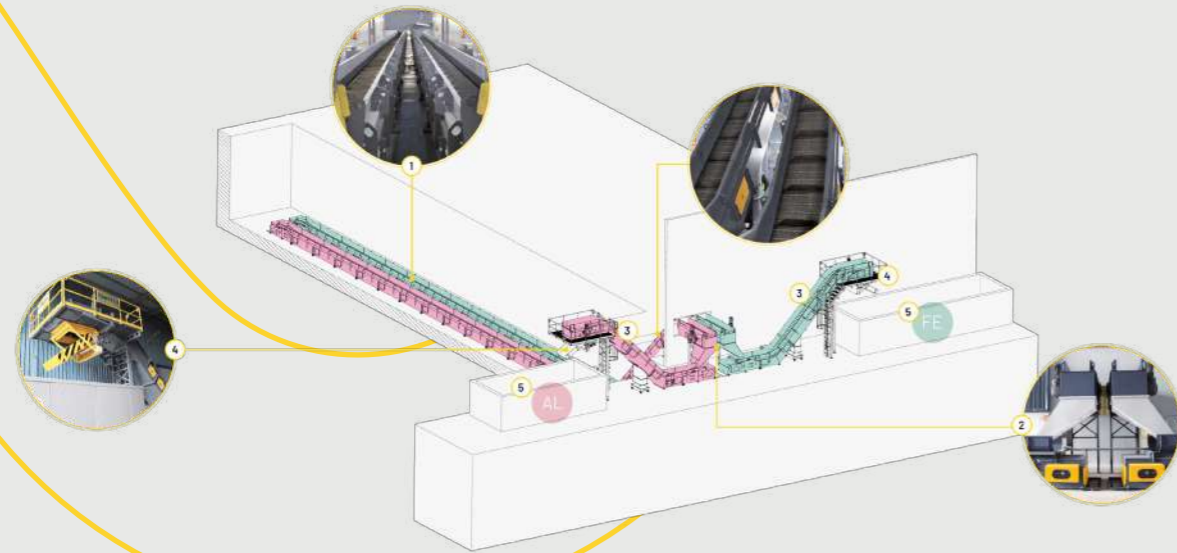
# COMETEL 100% CUSTOMIZED SOLUTIONS FOR EACH SPECIFIC CASE

## A. TOTALLY INDEPENDENT CONVEYOR FOR EACH TYPE OF MATERIAL

Implementing one conveyor line for each type of material becomes an optimal solution. By dimensioning the transfer trays and reception hoppers, a 100% guarantee of non-contamination is achieved.

ensuring 100% non-contamination

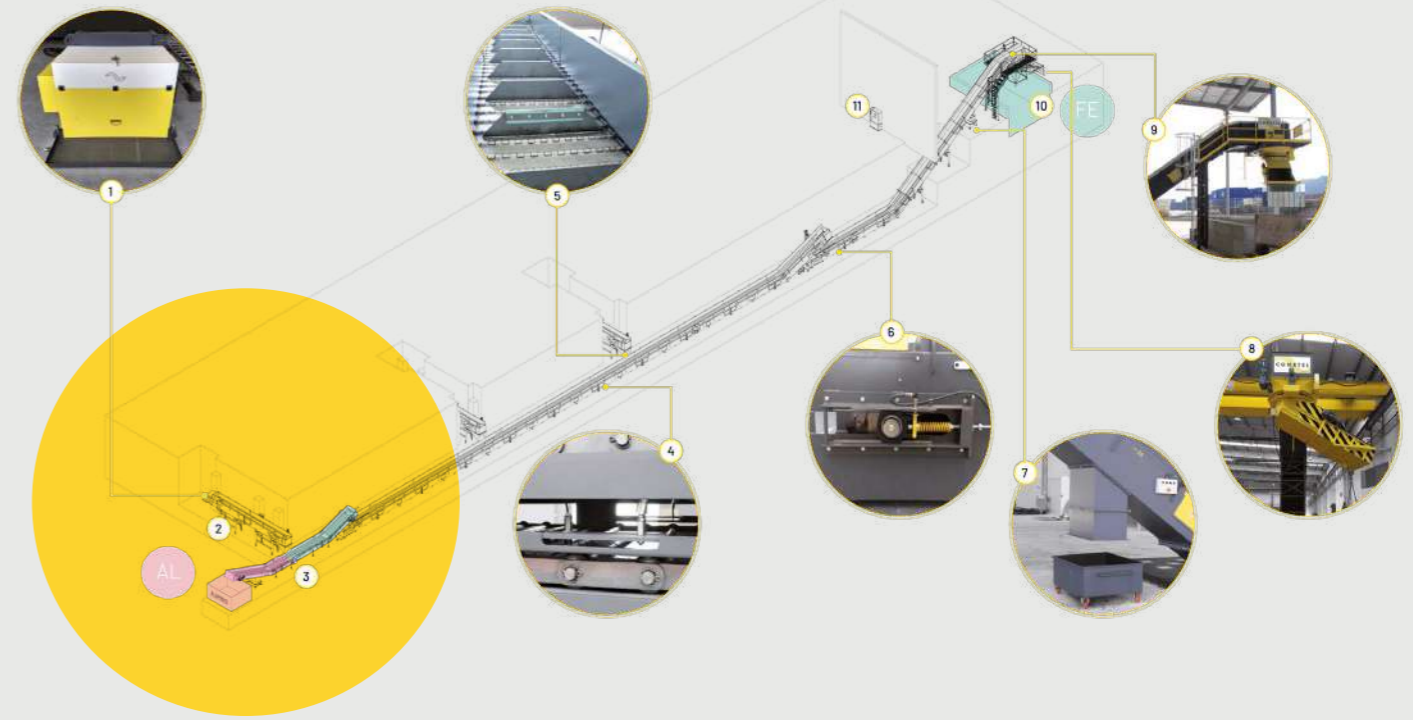
Cometel's wide experience has enabled them to develop benchmark projects with TIER1 and TIE2 clients in the automotive sector, providing the know-how of technical and mechanical details that make the difference.



## B. STAMPING TWO DIFFERENT MATERIALS ON AN EXISTING LINE

Cometel also stands out for its ability to integrate customized solutions into existing production lines. To ensure the non-contamination, cleaning systems are implemented on the conveyor which receives different material scrap, followed by a bidirectional conveyor that evacuate the scrap to one side or the other, depending on the scrap material.

ensuring 95,87% non-contamination

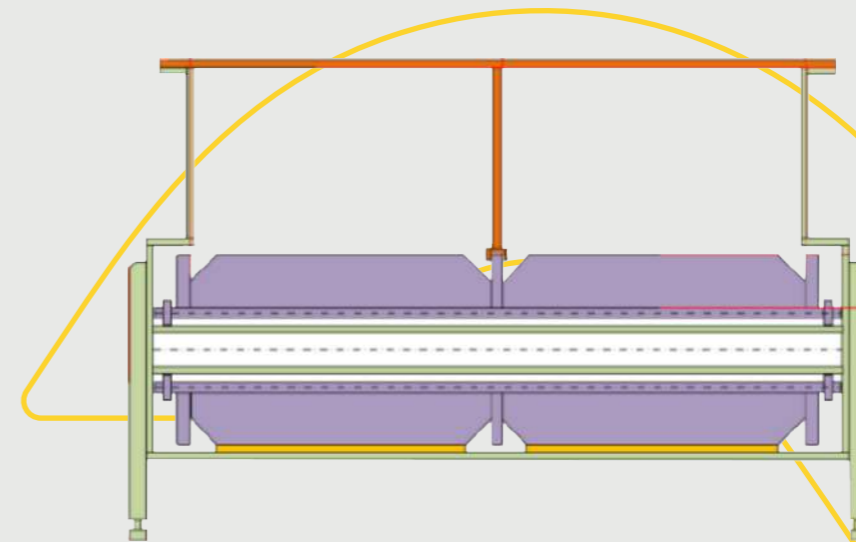


## C. A DOUBLE CONVEYOR LINE

There is another possibility, a double line conveyor with a separation in the middle of the belt. This alternative significantly reduces the required pit width. However, the non-contamination percentage could be slightly lower due to the generation of critical points, such as the transfer of material from one conveyor to another.

ensuring 99,45% non-contamination

Anyway, thanks to the scrap behavior's study which is carried out at Cometel, this risk is minimized.





# COMETEL CASE STUDY

## PROJECT 1

This involves a greenfield facility built by a TIER2 automotive group founded in Valencia. In this plant, steel and aluminum are stamped, so the client was aware of the importance of non-contamination for the revaluation of aluminum.



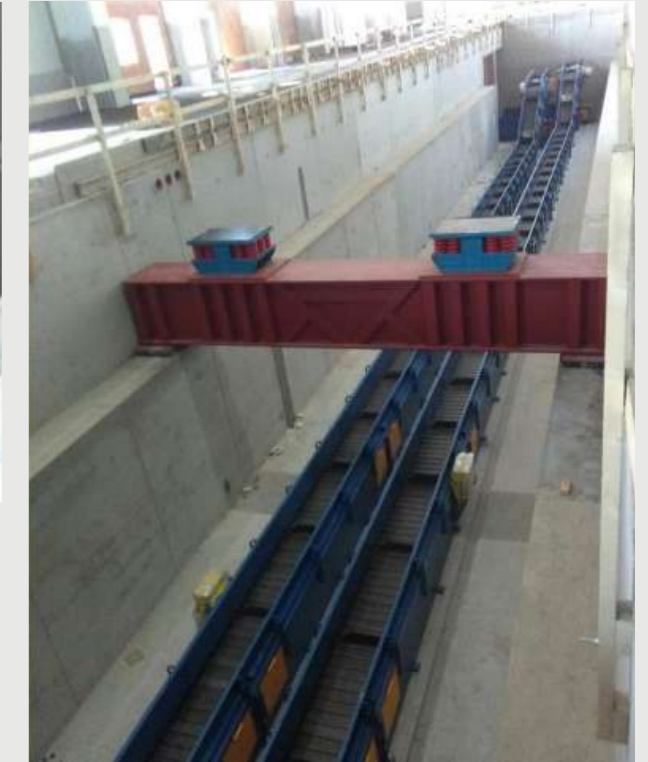
Thanks to it, from the very beginning the decision was taken to install a separate transport line for each type of material.



## PROJECT 2

In this case, it is a solution for an international TIER1 automotive client. Since there was not enough height in the pit, a 100% customized solution was implemented by installing

rotating trays under the presses to dump each type of material onto the corresponding conveyor.



Ensuring that aluminum is not contaminated with other materials when selling metal scrap is essential for its revaluation. Having solutions like those provided by Cometel ensures a higher economic return for stamping companies looking to sell aluminum waste to recyclers.

