

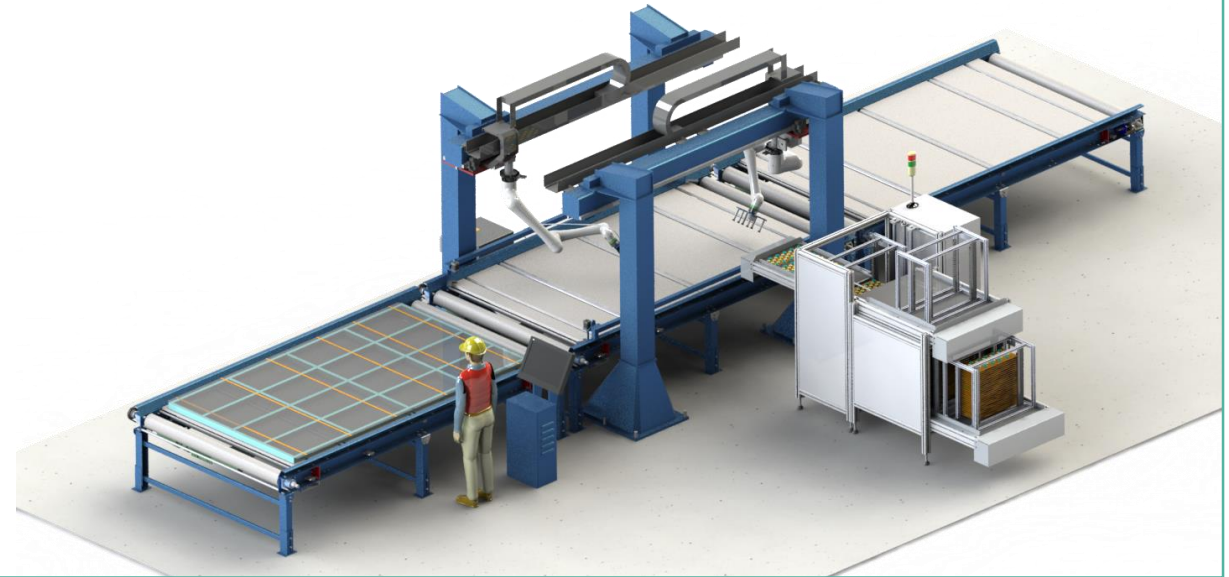
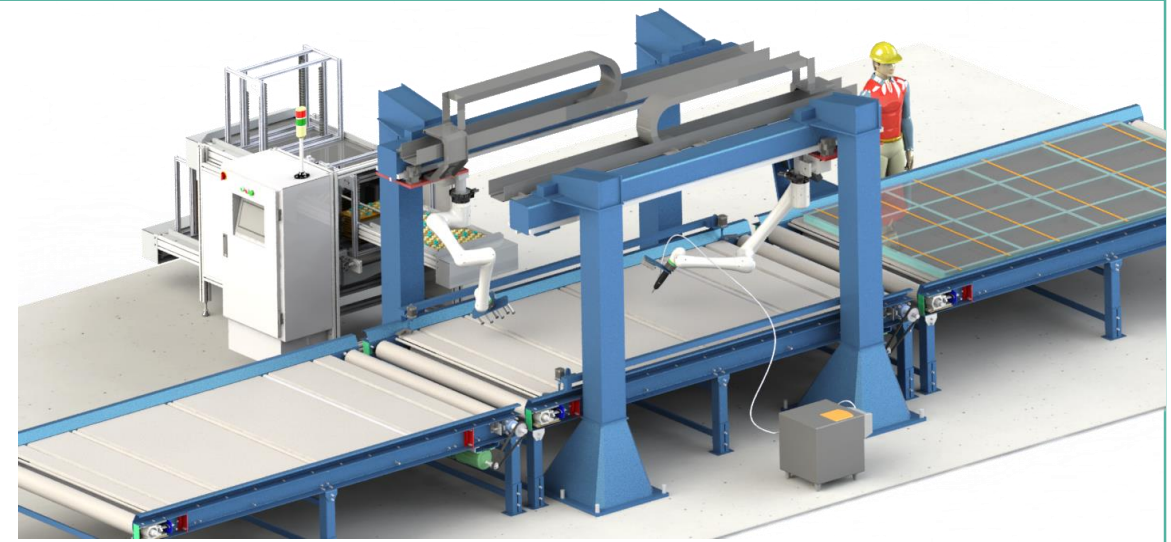


# Automatic Tile Assembly station - Case study



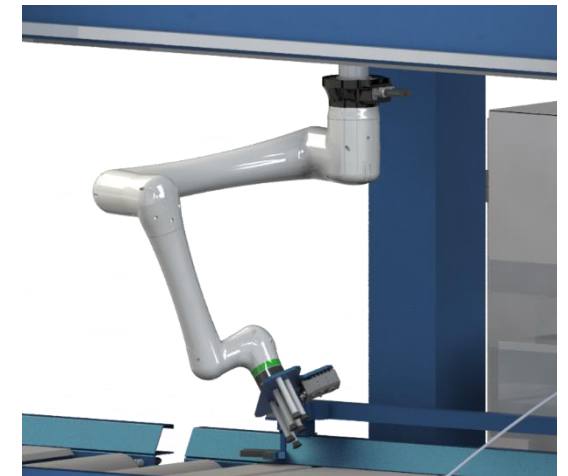
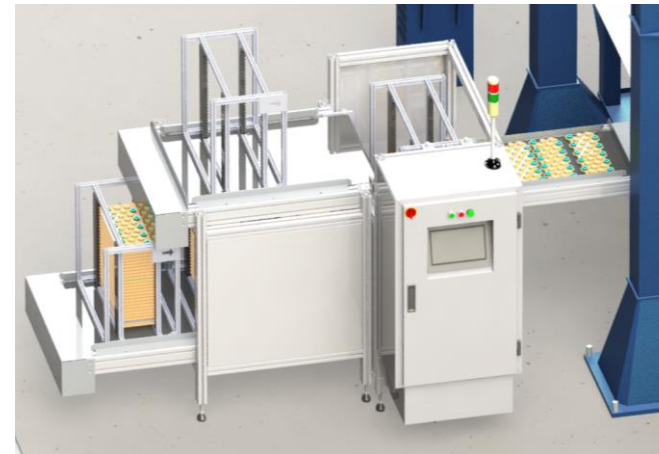
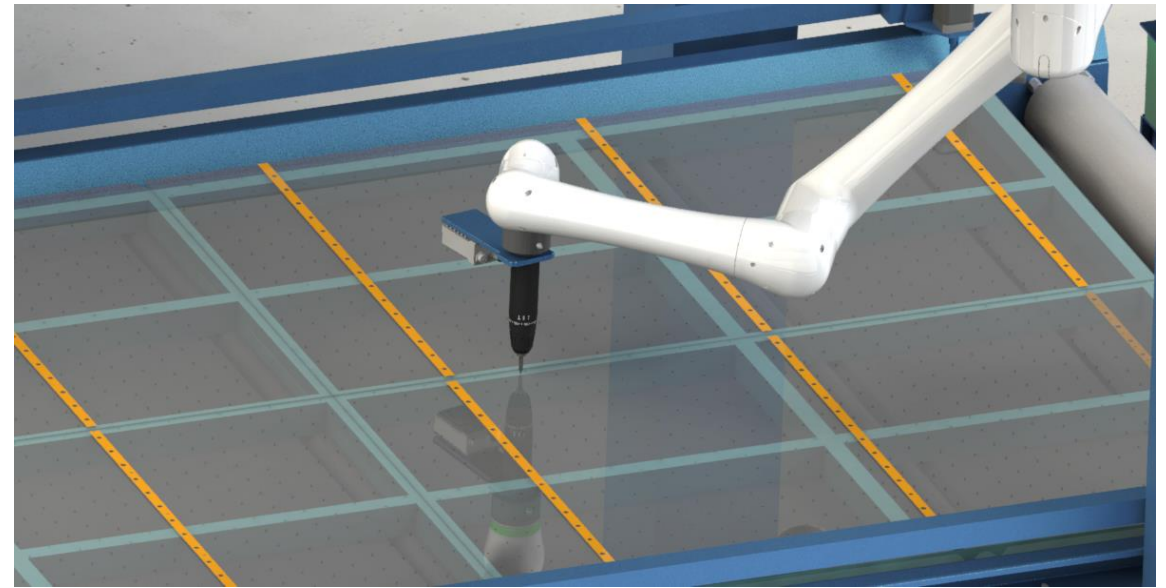
# Automatic Tile Assembly station

- AES automated the process of fastening the tile and radiator with beam. AES will design, develop, integrate, test and install the “ Automatic assembly station ”, which will comprise of a vision system ,screw fastening system and tile handling system.
- The overall scope is to fasten the tile with the radiator beam . Two Collaborative robot (Cobot) are used , one is for fastening and another is for holding the tile
- The overall project consists of three belt conveyors: an infeed conveyor, a process conveyor, and an outfeed conveyor. Initially, the cobot fastened the radiator with a base beam to make it rigidly fixed.



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- The unloading magazine machine sequentially feeds the tile to the cobot . Such that the cobot picks tile and places on the radiator , then it holds the tile until fastening cobot fasten sides of tile.
- Automated screw feeder , provide screws sequentially to cobot's end effector by pneumatic tubes , so the execution time will reduces.
- AES has tracked all gating items during the project and incorporate Quality checks at every stage of project. The Final Deliverables will be uploaded to a secured FTP site.
- Progress of work schedule, updates, initial results, final reports and any other deliverables will be communicated on a weekly basis through onsite engineer / Project Manager.



# CONTACT US

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**THANK YOU**