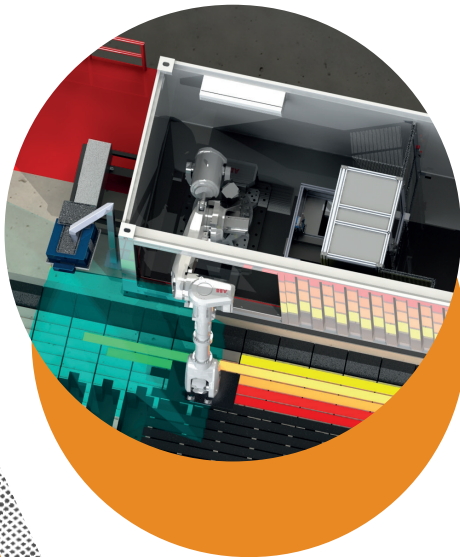




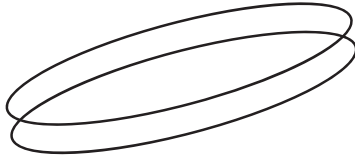
# POLYTEC

## COOLING BED SAMPLING ROBOT



### MANUAL OPERATION

The operator accesses the cutting shears or the cooling bed to manually cut a sample of one of the rolled bars for an indicative length of 40-90cm, usually by using oxyacetylene cutting torches.

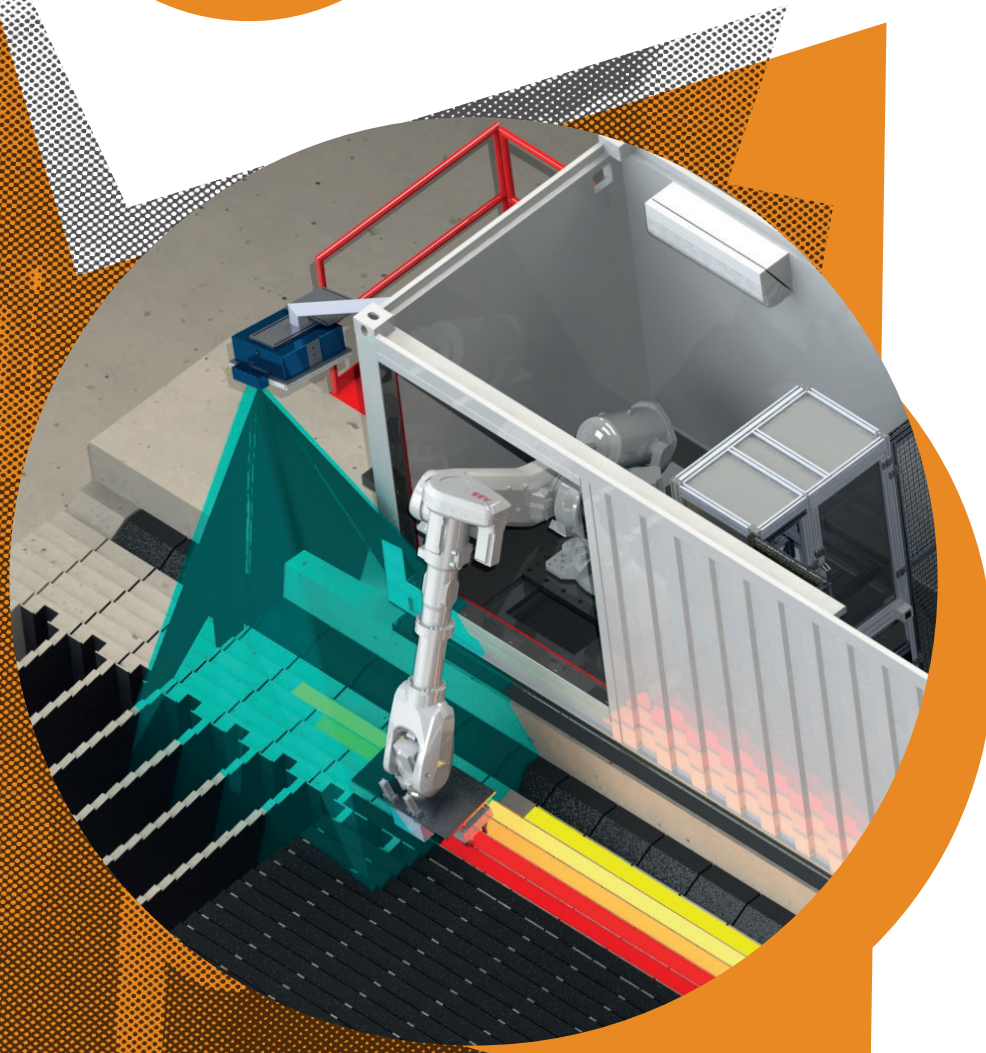


### ROBOTIC SOLUTION

The developed robotic system allows to easily reach the best pick-up point, depending on the plant layout.

The cut can be carried out using different techniques, based on the type of material, the cutting quality required or based on the target performance (Circular or band saw, Shear, Oxygen torch, Laser).

The vision system that performs 2D / 3D scanning, can be static or mounted on the robot's tool.



## NEW SOLUTION!



## CRITICAL ISSUES

- **ROLLING MILL OPERATIONS DOWNTIME**
- **OPERATOR ACCESS TO A HIGH-RISK AREA**

The vision system that performs 2D / 3D scanning, can be static or mounted on the robot's tool. It identifies the arrival position of the material to be cut and can integrate a partial control of the sample in terms of size.

The option of the robot mounted on an autonomous vehicle allows the automated handling when samples need to be taken from different points of the plate or from different plates and the automated samples' handling to the lab station.



## ADVANTAGES

- **MORE SAFETY**
- **ADAPTABLE TO DIFFERENT PLANT LAYOUT**
- **RELIABILITY**
- **MORE ACCURACY**
- **MORE QUALITY**
- **20 SECONDS OF ROLLING PAUSE COMPARED TO 120 SECONDS OR MORE REQUIRED FOR MANUAL OPERATION**
- **EARNINGS OF 300 PRODUCTION HOURS / YEAR**