

Company: Teknopalas
RFID

Application : Metal Pipe
Location Finding

RFID Tag Supplier:
Confidex / Alien

Tag Model: Ironside/ALN-
9540

Range: 3 meters

Challenge:

*The real vertical and horizontal positions of the ordered metal pipes are needed for giving clear information to customers about shipment date.

*Inventory calculation with barcode reader takes long time

*Harsh environment for RFID tags

Solution:

*Confidex Ironside are mounted on floor for defining position of metal pipes.

*PVC covered ALN-9540 tags are hanged on metal pipes.

*Mobilized reader with 3 antennas tours down aisle to get signals from RF tags.

Benefits:

*Accurate data collection

*Reduced people work

*Fast response on customer requests

*Reduced truck renting costs

Metal Pipe Location Finding System



BURAK BORU, occupying the leader position in the sector of seamless steel pipes trading with its stock and sales volume, has been supporting many industrial sectors like automotive, HVAC installations, construction, and naval architecture, with the experience of 26 years in the steel sector .

Mobilized RFID reader reads all the reference tags(Confidex Ironside) while passing aisles. 3 mobilized antennas also reads the tags hanged on metal pipes. The software creates a real time map of aisles on x and y coordinates for each run.

The software shows the position of each pipes on x,y coordinates which lets user calculate necessary time for preparing ordered pipes.

Ordered pipes are transported by rented trucks. They are paid for each hour they are waiting for pipes to be ready. With the help of RFID system created by Teknopalas, unnecessary waiting time of trucks are decreased.



Seamless metal pipes are stacked randomly as they are produced to be sent to customers.

