

CASE STUDY

INTRALOGISTICS MATERIAL MOVEMENT

CHALLENGE

Industry 4.0
build future ready, smart factory
Powerup intralogistic movement
across production



From the store, kits once prepared are **transported as unit load** by mobile robots to respective sub-assembly stations



FRAME WELDING LINE

ILR moves parts from welding stations to assembly line in a tug trolley setup. Worker calls the robot once parts are ready to be moved.

BATTERY FACILITY

Fully charged batteries are trolley tugged to assembly line for installation in the vehicle



KITTING, SUPER STORE AREA



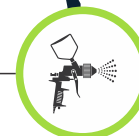
WIP MATERIAL MOVEMENT

WIP material transfer across the warehouse through either unit load or trolley tugging is carried out on demand by the robots



PAINT SHOP

Trolley tugging of paint finished parts from subassembly to main assembly for final commissioning



RESULTS



WIP MATERIAL MOVEMENT
efficiency increased. Post deployment the customer achieved higher speed and flexibility



SCALABILITY
Ability to ramp up production volume on demand by adding more AMR



MAN-MATERIAL-ENVIRONMENT SAFETY
Deployed solution provides ANSI standards of safe to work humanmachine environment