AIHEN Collaborative Robots Automate Welding of Large Structures

Automated Solutions for Shipbuilding Welding Shops

Achieving cooperation with people at various sites

- Long Arm Collaborative Robotic VC4L Optimized for Arc-Welding
- The robot is transported to the workpiece position and welded in situ.
- Capable of riding on steps of max. 40mm
- Direct teaching is also supported.

Roboless Teach Function Industry's first

- Simple teaching with camera shooting without a robot
- Realizes parallel operation of robot production and teaching
- Automatically avoids interference with workpieces and peripheral devices



Shooting



Collaborative Robots Automate Welding of Large Structures

Challenges in Introducing Robots to Shipbuilding Welding Sites

Robots cannot be easily installed.

- Numerous welding points are scattered over a large welding site in shipbuilding.
- The welding object is large and difficult to move close to the robot.
- Difficult to install industrial robots that require safety fences.

Teaching work is time consuming and automation is unprofitable.

- Robot must be moved for each welding point
- Teaching work is required for each move, and it takes time to weld.

