

## iShiploader from indurad ensures precision loading of bulk cargoes

indurad's shiploader solution, the iShiploader is widely used around the world, from loading iron ore in West Australia to potash, coal, and grain on the west coast of Canada. On the North American east coast, the company has deployed its solutions at iron ore and coal export terminals and on ship-unloaders handling alumina.

Automatic shiploading has always been the holy grail of the mining and bulk material handling industries, as it allows operators to tele remote the boom and spout from a safe location. iShiploader uses high precision 2D and 3D radar sensors to reliably scan for collision objects, provide position data, and measure the interior of bulk carriers in real time during loading/unloading cycles.

Most seaports experience a considerable amount of dense fog, rain, strong winds, ice, and snow. These environmental factors pose challenges for conventional optical technology like lasers which rely on favourable weather conditions to perform optimally. indurad's sensors use the latest in radar technology, which is proven to work reliably in all weather conditions. This allows the company systems to work continuously day and night, 365 days/year with minimal maintenance.

The Germany-based global supplier of radar-based automation technology is continuously developing its solution to consider new shiploader and unloader types. With each deployment and ship type, new features are developed and made available to meet customer needs. indurad's recent breakthrough allows rapid and reliable shiploading by identifying the ship's hatch pattern from an internal



*Installed iShiploader, the shiploader automation radar solution at the customer site.*

database of different ship types. This has allowed the company to greatly reduce the commissioning time needed to implement automated hatch localization for loading automation. indurad has also recently developed a version for ship-unloaders which is currently being deployed.

The industrial radar company was also awarded a contract for shiploader collision avoidance and loading assistance on two coal shiploaders on the west coast of North America. These systems will enhance production and reliability for the operation. indurad is anticipating deploying a solution on an east coast ship unloader in 2021.

### ABOUT INDURAD

indurad is a major Germany-based global supplier of radar-based automation technology. indurad's solutions are used to

de-bottleneck bulk materials handling systems in mining and port operations, allowing people to work safely and efficiently in all weather conditions. indurad has successfully implemented advanced automation solutions in Africa, Australia, Brazil, Canada, and Europe. indurad's proprietary sensors are part of a multi-purpose solution family that covers real-time inventory control, 2D and 3D stockpile visualizations, machine positioning with high accuracy, speed and volume flow control for conveyor belts, shiploaders, and more. For example, indurad automates train loadouts, shiploaders, stackers/reclaimers and crushing plants.

indurad has partners and clients in the mining, marine, and bulk materials handling industries on all continents and has local offices in Australia, Brazil, Canada, Chile, Russia, and South Africa.