

# INGOT CARRIER

## Handling 30-plus tonnes of ingots in a single lift

Innovation

Purpose-built

Availability



Spreaders with grab arms that squeeze in from the side can handle multiple ingot bundles without the need for additional strapping.

*The Ingot Carrier can handle ingots bundles both at the smelter and at the port, and transport them in between at high speed.*

Since 1983, Isoloader has leveraged its proven experience in container and heavy load handling solutions to manufacture Ingot Carriers (IC) that simplify the logistics of getting ingots on to the ship.

**Improved ship loading:** the IC can place the ingots on the wharf directly under the ship cranes. This decouples the delivery of the ingots to the ship from their loading as the IC does not have to wait on the crane but can continue with other operations. In contrast, ingots on trailers must queue and wait their turn at the crane, causing congestion and tying up equipment.

**Transportation at high speed:** with a speed of up to 35km/h, the IC can be used to transport ingots between the smelter and the port or rail terminal, eliminating the need for additional equipment and the additional truck loading and unloading operations. The operator has the flexibility to easily redeploy ICs from the smelter to the port when a ship requires loading.

**Handling multiple products:** using exchange and add-on spreaders, the driver can quickly switch between handling different types of ingot and billet bundles, including coils and plates. Any standard ISO container can be handled including flat-racks, and product can be loaded (or unloaded) into open-top containers.

**Straddle Carrier design:** based on Isoloader's proven Transporter and Container Handler ranges of straddle carriers, the Ingot Carrier offers all the advantages of straddles over forklifts and reach-stackers, including low fuel and maintenance costs, low pavement (construction and maintenance) costs, and high storage density with order picking.

## SERVICE AND INNOVATION

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# ISOLOADER

CONTAINER & HEAVY LOAD HANDLING SOLUTIONS

# INGOT CARRIER (IC)

A high-availability, high-capacity workhorse for smelter, port-side and transporter operations.

light and strong structure - each end of the U-shaped structure shares the load independently, allowing the structure to flex. Lowering the weight reduces fuel and pavement costs.

**simplified lifting assembly** - hydraulic cylinders and sheaves are simple to maintain and eliminate the need for complex control systems.

**flexible load handling** - add-on spreaders allow the driver to handle different types of ingot bundles as well as billets, slabs, plates and shipping containers.

**reducing driver fatigue** - the cab is air-conditioned for operator comfort and low-mounted for quick and easy access.

**optional telescoping masts** - reduces the height for clearing pipe bridges and passing through doorways.

rough ground and steep grades - up to 10% can be handled with the optional 4 wheel drive.

maneuverable - a short 5m wheel base means a tight turning radius of under 9m using 2 wheel steer, or under 8m using the optional 4 wheel steer.

easy to operate - simplified mechanical systems reduce maintenance costs and the complexity of the controls. Driver training takes only 1 day.

stacking height - models are available for stacking ingot bundles 1, 2 or 3 high.

**clear visibility** - the low mounted and mostly glass cab mean good visibility for truck loading and ingot bundle handling.

**custom cab position** - optimizes the handling according to the operating requirements. A front mounted cab is used if travel is primarily in one direction.

**bi-directional operation** - when configured with a side mounted cab and 4 wheel steering, the Ingot Carrier will handle the same in either direction of travel - increasing driver efficiency.



**optional 6 wheels** - reduces the wheel loading for use on poor quality pavements and docks with weight restrictions.

reducing tyre costs - a true steering geometry practically eliminates tyre scuffing. Tyres last 3 times as long as on forklifts and reach-stackers, plus there is less damage to your pavements.

**positive displacement hydraulic wheel motors** - make it easy on the driver by providing infinitely variable speed control independent of the load, smooth stopping without backlash and precise positioning - all with a single foot pedal.

**hydrostatic braking with emergency disc parking brake** - no separate braking system is required for speeds up to 20 km/hour - increases reliability and reduces maintenance costs.

Key specifications	
Travel speed*	20km/h
Hoist speed	13m/min
Load under spreader*	35t
Spreader side shift	+/- 125mm
Wheel loading	< 12t
*up to 35km/h and 60t	

Further options are available to suit your exact needs. Call us to see how the Ingot Carrier can revolutionize your logistics.