



MCS

*Modular Conveyor System
by Aran.*



Long recognized as the master of modular mixing plant design, Aran has taken the modular approach to a new level with the MCS modular conveyor system.



Aran Materials Handling & Processing Solutions.



The most MODULAR CONVEYOR system yet!

The first Aran MODUMIX mixing plant debuted in 1984. With every machine element constrained within CSC compliant and registered container dimensioned structures, these machines are moved from continent to continent multiple times in their working life. The MCS range from Aran brings modular convenience to conveyors for construction, quarrying and mining projects. Suitable for concrete and RCC for dams. Ideal for both long and short term conveying needs.

Strictly Modular.

Everything stacks inside ISO standard shipping containers. Aran MCS Long Span conveyors can be supplied with a custom set of Aran transport and storage containers with all fixings built in. Smaller MCS short and medium span models stack together using container twist locks. Even support trestle mounts are twist locked. No more costly break bulk freight or storage yards littered with long conveyor structures or trestles.

No Custom Design.

A mix and match programme of standard sections, tensioning arrangements, and drives meets many applications right out of the catalogue.

Mix & Match Capability.

Head and tail sections are modular for use in different configurations. Half (6 metre) and quarter (3 metre) length sections add flexibility.

MCS conveyors from Aran come in Short, Medium and Long Span families.

MCS SS & MS Modular Conveyor Families.

Aran MCS SS Short Span conveyors are pre-assembled in 12 metre long sections. Any number of spans can be connected with support every 12 metres. Walkway sections are interchangeable for either left or right mounting.

MCS MS Medium Span conveyors are similar to SS conveyors, but with deeper truss frames for support every 24 metres.

MCS SS & MS head and tail sections are interchangeable.

Take-up Options.

The tool free Aran side-winder take up system is used on short conveyors.

Longer conveyors use either conventional gravity takeups, or cable retraction of the tail pulley where practical.

MCS LS Modular Conveyor.

Aran MCS LS Long Span conveyors capable of 57.5 metre spans deliver serious packaging value.

A flat pack design sees all truss panels side, top and bottom separated into flat panels for transport within custom containers. A sequential assembly system allows each 11.5 metre section to be

Aran has applied the "flat pack" concept to conveyors spanning 60 metres.

assembled readily and pin connected to its adjoining section. Walkway sections clip mount to either side.

Luffing Conveyor.

A pivotal tail frame, tail drive and articulating head chute and platform give the MCS LS luffing capability from -20 to +20 degrees.

An Aran active hydraulic belt tensioning design allows loading to a fixed tail pulley location and eliminates gravity takeups.

Luffing conveyors are designed to be supported by standard tower crane structures which are typically readily available. Head frames and winches are available.

An optional articulating side discharge conveyor allows the luffing section to be placed parallel to a dam face and still discharge to the working area on the dam.

Covers.

For basic weather protection, full covers to the top, and non walkway side are optionally available. Removable covers on the accessed side are optional with that system.

Optional Aran close fit belt hugging covers effectively envelop the material and contain air borne dust as well as allowing cold air to be fed into the chamber for chilled aggregate or concrete conveying.

Electrics and Controls.

Full Aran electrical control and management systems are designed to

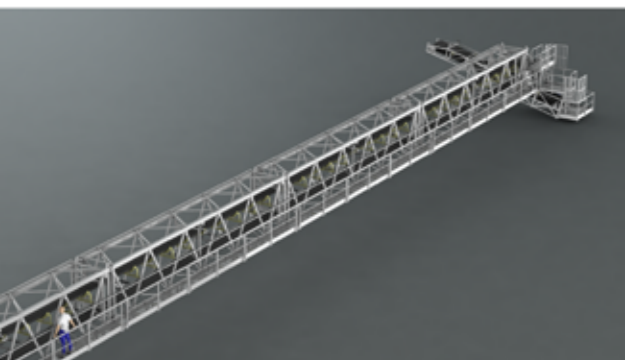
suit the modular system. Luffing conveyors have VSD motor management with either regenerative or resistor bank braking for descending conveyors. Lighting is optionally available. Aran AMC-LS conveyors employ low energy, high luminance LED lights.

Safety.

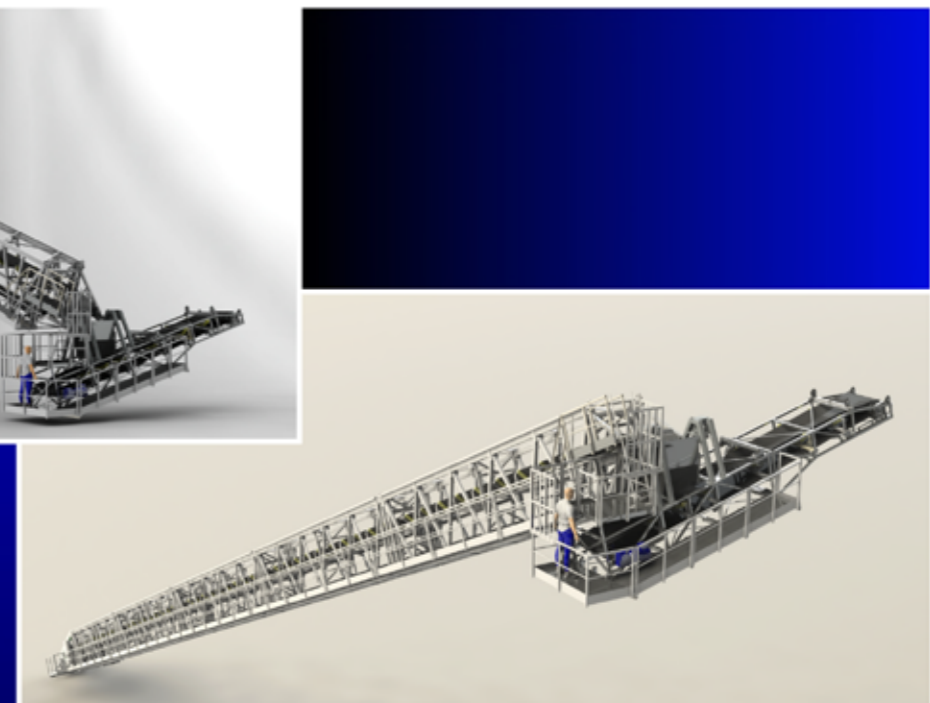
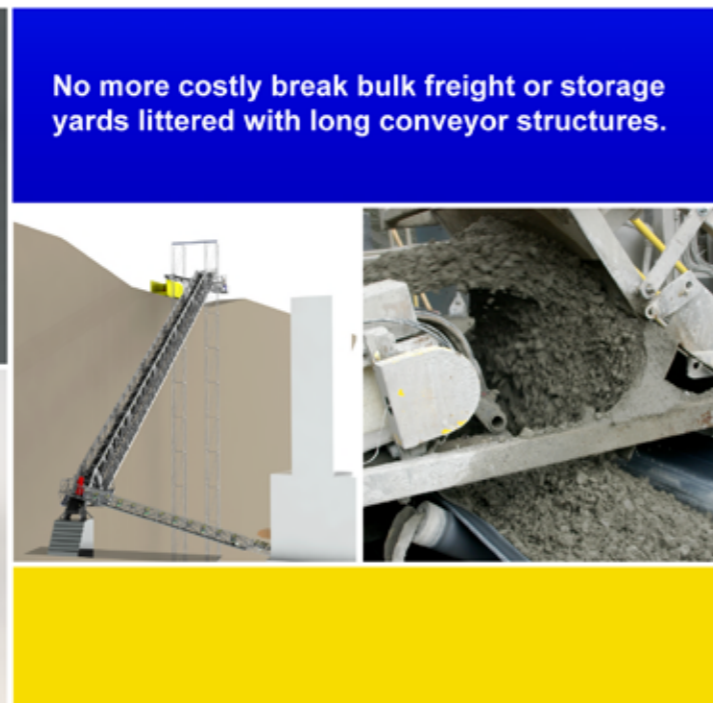
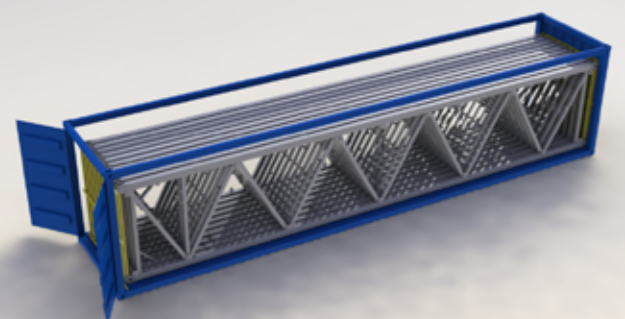
All Aran conveyors are designed to comply with Australian Standards for Conveyor Safety. All accessible nip points are guarded. Emergency stop lanyards are fitted to accessible sides of Aran conveyors.

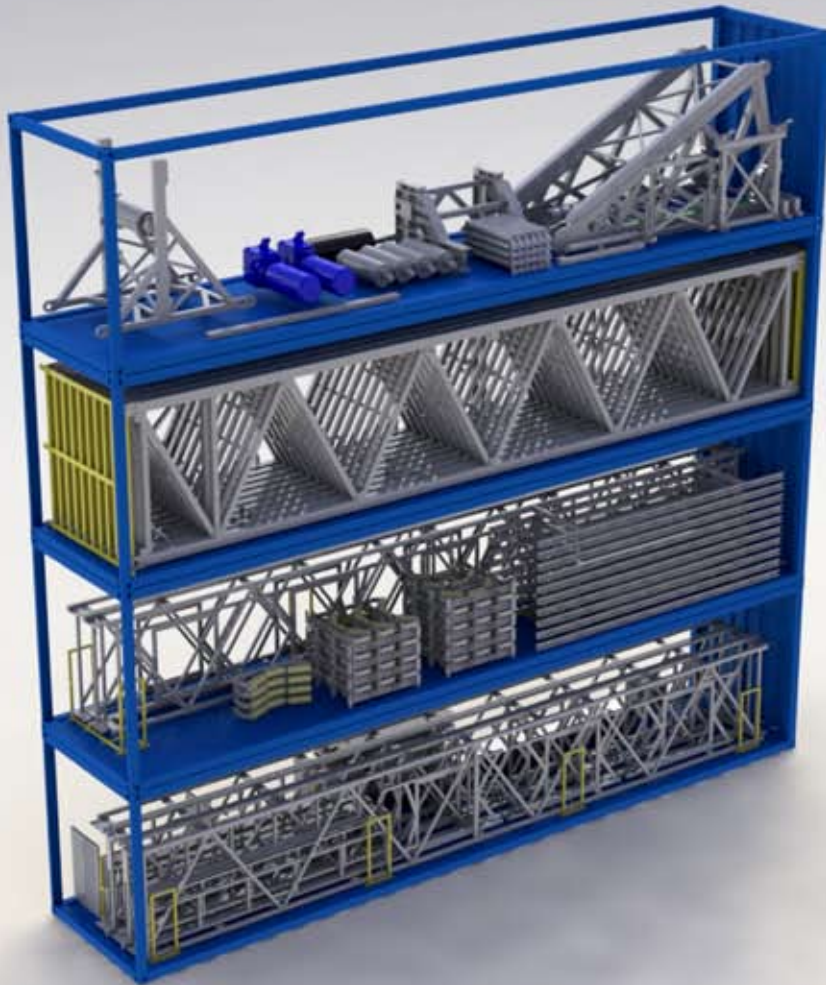
Optional Configurations.

	SS	MS	LS
Max Span between supports (m).	12	24	57.5
Belt Width Options. (mm)	600	600	
	750	750	
	900	900	1,200
Luffing Optional.	No	Yes	Yes
Integrated side discharge Conv.			Opt
Standard Drive Location.	Head	Head	Tail
Optional Drive Location.			Tail
Aran Side-Winder take up.	Opt	Opt	
Gravity Take-up Conventional.	Std	Std	
Gravity Take-up Cable Tensioned.	Opt	Opt	
Aran Active Hydraulic Take-ups.			Std



No more costly break bulk freight or storage yards littered with long conveyor structures.





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