



INSTALLATION THEATRICAL ENGINEERING



THE NEXT GENERATION OF SAFE & FLEXIBLE HOIST CONTROL

INTERMEDIATE

Simple. Powerful. Intuitive

INTRODUCTION

The Intermediate hoist control system is the standard mid-range control system suitable for performing arts centres that encompass multiple hoists of different types within a single space. This sophisticated system enables the operation of multiple hoists, including chain hoists, zero fleet hoists, and pile winding winches, all through a unified control system and simple pendant. To facilitate seamless control, the system consists of a switchgear cabinet positioned in proximity to the hoists or within a machine room, along with a separate control panel, usually located on-stage. In cases where the number of hoists is six or less, the switchgear cabinet can also function as a control panel. The control panel allows users to select the desired hoist they wish to operate, after which the pendant is employed to effortlessly raise or lower the selected hoist. The pendant is designed to be pluggable, enabling convenient storage when not in use. Notably, the control panel incorporates a touchscreen Human-Machine Interface (HMI) that provides essential information regarding system faults or safety status. This comprehensive motor control system empowers performing arts centers to efficiently and safely manage a multitude of hoists, without the complexity and cost involved in our Semi-Pro or Pro control systems.

SAFETY

- Operational & over travel limit switches.
- Electrical isolators to all electrical cabinets.
- Industrial grade e-stop at all electrical cabinets.
- All electrical enclosures are lockable.
- Keyed power switch provided at all control locations.
- Slow Start & Stop reducing system shock load.
- Continuous hoist speed provided by encoder.
- Overload Protection.
- 24v (ELV) Control.
- System inverter brings the load to a controlled stop prior to activating the brakes.
- All electrical safety circuits feature safety relays.
- Only one hoist can be operated at a time using enable pushbuttons on the control panel.
- HMI (Human Machine Interface) provided on Control Panel for efficient fault finding.
- Pendant is pluggable and can be stored away to prevent misuse.



FUNCTIONALITY



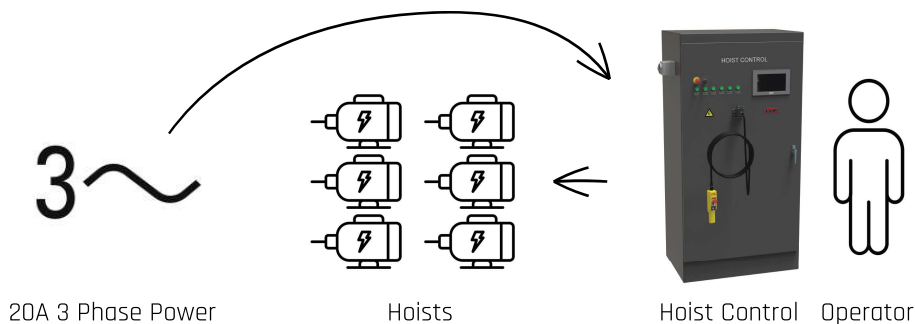
- Simple and efficient plug and play design.
- All pushbuttons are industrial and hold to run.
- Operation limited to up, down & e-stop.
- Multi-hoist systems such as chain motor setups are only controllable together to reduce risk of out of balance loads.
- A single pendant can control multiple types of hoists such as chain hoists, zero fleet hoists, pile winding winches and drum hoists by simply plugging the pendant into the designated control panel for the hoist you wish to operate.
- Pendants are pluggable to avoid unwanted use.
- Pendant leads are industrial grade and customizable.
- Pendants are industrial grade and ergonomic.
- System reset push buttons and fault indication lamps are provided as standard to reduce venue downtime in the event of a fault or safety system activation.

TECHNICAL SPECIFICATION (ALL MODELS)

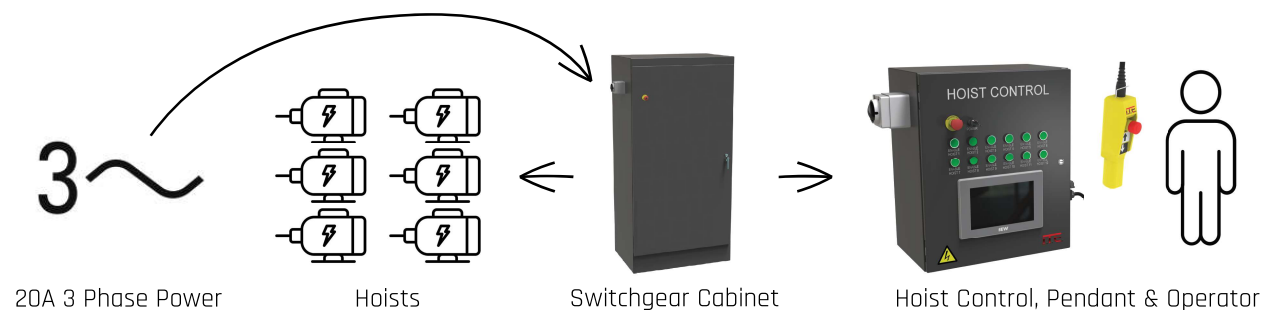
Limits	Upper & lower operational limits, upper & lower over-travel limits fitted as standard Limits are rotary cam.
Brakes	Brakes are engaged immediately following all controlled & uncontrolled stops
Variable Speed	Variable frequency drive & encoders allow for slow start and slow stop and quick re-activation of hoist without requiring a reference travel in the event of a power outage.
Control Voltage	ELV
Overcurrent Protection	Yes
Overload Protection	Yes
Fault & Safety HMI	Yes
Enable Buttons	Yes
System Reset Button	Yes
Control	Dead man / Hold to run
Mounting	Flexible Wall or Floor mount
Keyed E-Stops	Yes, on switchgear cabinet
E-stops	Yes, on control panel
Isolator	Yes, on switchgear cabinet
Compatible Hoists	Zero Fleet Hoists, Pile Wind Hoists, Drum Hoists, Line-shaft Hoists, Chain Hoists

POWER REQUIREMENTS & CONFIGURATION

Single Cabinet Control (I-SCC)



Seperate Hoist Cabinet Control (I-HCC)



WARRANTY

2 Years Standard Parts & Labour.

CONSTRUCTION & CERTIFICATION

All ITE Control Systems are Australian designed and made with parts sourced within Australia.

All ITE Control Systems are designed and engineered as to AS1418 & AS3000.

STANDARD CONFIGURATIONS

Single Cabinet Control (up to 6 hoists) (I-SCC)



Seperate Hoist Cabinet Control (I-HCC)





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