

## COUNTERMATE PRODUCT LINE COMPARISON

Feature	CounterMate Junior	CounterMate X	CounterMate Pro
Motor Type	Induction Motor	Induction Motor	Permanent Magnet Motor (servo)
Power Requirements (Min.)	120V single phase	208V/480V 3-phase	480V 3-phase
Performance Category	Entry-level	Medium	High
Existing Install Base	106 units	44 units	51 units
Quick Change Control Cabinet	✓	✓	✓
Absolute Encoders	✓	✓	✓
Individual Controller for Each Set	✓	✓	✓
Secondary Brakes	✓	✓	✓
Fits on 8" Centers	✓	✓	✓
Suitable for New Construction and Retrofit	✓	✓	✓
Re-use Existing Rigging (Subject to Inspection)	✓	✓	✓
Fully Captured Guide Chain	✓	✓	✓
Multiple Patents	✓	✓	Pending
Redundant Limits	✓	✓	✓
SIL-3 Compatible E-Stop	✓	✓	✓
Joystick Control	✓	✓	✓
ANSI/ESTA Code Compliant	✓	✓	✓
Global Control Console			✓
Pendant Controller (Optional)			✓

## LOAD CAPACITIES AND SPEEDS BY MODEL

Family	Model	Maximum Scenic Load	Max Speed (feet per minute)	Minimum power required	Great for
CounterMate Jr	JR-GP-750	750 lbs	0-100 fpm	120v 1φ	Typical scenic elements and soft goods
	JR-EL-1250	1250 lbs	0-20 fpm	120v 1φ	Electric lighting battens
	JR-HD-2000	2000 lbs	0-10 fpm	120v 1φ	Moderately sized orchestra shell ceilings
CounterMate X	X-GP-1200	1200 lbs	120 fpm	208v/480v 3φ	Balance of speed and capacity suitable for most PACs
	X-EL-1750	1750 lbs	0-20 fpm	208v/480v 3φ	Larger electric lighting battens
	X-HD-3300	3300 lbs	0-10 fpm	208v/480v 3φ	Large orchestra shell ceilings
CounterMate Pro	PRO-GP-1300	1300 lbs	180 fpm	480v 3φ	Ultra-fast scenic automation
	PRO-GP-1800	1800 lbs	120 fpm	480v 3φ	Large, fast-moving scenic elements

Protech Theatrical Rigging & Automation

[www.protechlv.com](http://www.protechlv.com)

[www.countermaterigging.com](http://www.countermaterigging.com)

Since 1988



COUNTER  M.A.T.E

Modular. Automated. Theater. Equipment.


**M** – Modular Design: Simple to install and maintain

**A** – Affordable and Cost-Neutral: Priced to compete with traditional counterweight systems.

**T** – Trusted Performance: Scalable for schools, PACs, and professional venues.

**E** – Exceptional Safety: Industry-leading safety features including redundant brakes.

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CounterMate is a closed-loop counterweight-assist stage winch. It features standard variable speed operation, precise positioning, and touchscreen controls. Speeds and capacities range from heavy and slow machines (electrics and shell ceilings) to various general-purpose (“GP”) options, depending on your budget and available power.

The arbors are sealed, meaning there is no need to handle or adjust counterweight. During installation and commissioning, the batten is balanced with counterweight. Then, 50% of the total set capacity is added to the arbor. The motor compensates for the difference using a fully captured drive chain and numerous industry-leading safety features. All listed capacities represent maximum scenic loads.

CounterMate is suitable for installation on 8” centers, with options available for every price point—even if 120v 1φ power is your only available option!\*

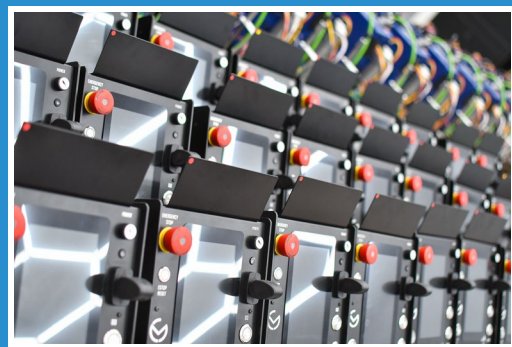
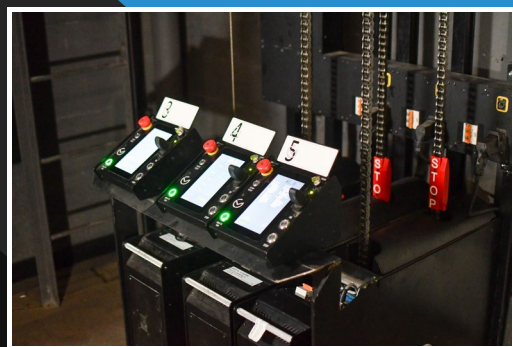
Each set has its own control station, aligning the operator with the set in motion. While master control stations are available, we recommend individual control stations to maximize safety.

All machines feature variable speed operation using a closed-loop vector drive. For additional safety, a secondary brake is included, along with an absolute encoder, dual hard-struck over-travel limit switches, closed-loop velocity control, and Safe Torque Off (STO).

Both the Motor Control Cabinet (MCC) and operator console are equipped with quick-disconnect fittings. In the unlikely event of a serious problem, simply swap in a spare – the show will go on!

CounterMate combines the best aspects of counterweight rigging, automating only the components that require it. For renovations, the existing rigging system can be reused. Loading bridges are not required, saving up to \$70,000 in new construction budgets. This makes the CounterMate Junior platform cost-neutral compared to traditional counterweight systems.

US PATENT 12,006,192. Multiple patents pending.



**VARIABLE SPEED. ABSOLUTE POSITIONING. TOUCHSCREEN CONTROL. BUILT-IN SAFETY. ALL STANDARD.**

- Meets or exceeds industry codes and standards
- Fully ADA accessible

The CounterMate family of winches offers consistent operation across all models but varies in performance depending on your needs, budget, and available power distribution.

- CounterMate Jr.: Our most affordable machine. If only 120v 1φ power is available, this is the best solution.
- CounterMate X: A medium-performance winch, ideal for most high schools and college performing arts centers (PACs).
- CounterMate Pro: Designed for top-tier performance, featuring patented servomotor technology. Perfect for professional venues demanding the best in speed and capacity.

MSRP pricing includes the Power Drive Unit (PDU), Motor Control Cabinet (MCC), operator control console, drive chain, and sealed arbor. Delivery and installation are not included.

## Features

- HMI touchscreen control with an intuitive interface
- Operators are aligned directly with the set in motion
- Variable speed joystick for manual jogging
- Save and recall targets, known as “spikes,” with reliable absolute positioning
- Suitable for installation on 8” centers
- Sealed arbors eliminate the need for counterweight manipulation (witness holes verify proper installation)
- Multiple levels of control access: Use as an up/down controller or customize acceleration, deceleration, velocity, and jerk for perfect scene transitions
- Fully ADA-compliant operation
- Industry-leading safety features, including redundant braking, Safe Torque Off (STO), and onboard diagnostics
- Modular design for quick swapping of control and operator consoles