Heavy Duty Class C Single Girder Series 3 Underhung Complete Cranes

Harrington Underhung cranes combine superior performance with underhung space savings. It’s a rugged design that easily handles today’s most demanding Class “C” applications, including fabricating, machining, die handling, production, assembly and maintenance. All bolted assembly makes installation quick and easy—no welding required. Most wiring connections are factory installed or plug-in type. You can rely on Harrington cranes for durability, reliability and years of trouble-free service. Count on Harrington to include standard features that are options on competitors’ cranes.
Totally enclosed, non-ventilated motor ensures long life.

Cross-bracing ensures crane rigidity, prevents crane from binding.

Machined dual tread wheels suitable for S or W shaped beams (patented track wheels available).

Trolley hoist available in a wide selection of low-headroom styles.

Helical and spur gears are induction hardened for extended life.

Standard electric trolley brake for ultimate load control.

Side guide rollers reduce wheel wear and provide smooth crane travel.

Crane wiring enclosed in conduit for code compliance.

Adjustable DC brake to control crane deceleration (see page 30).

Structural steel end truck design is compact for optimum end approach.

Bumpers and rail sweeps are standard on end trucks and powered trolleys.

Push-button pendant for easy control of trolley, hoist, and bridge motion. Includes power on/off control.

Crane wiring enclosed in conduit for code compliance.

Cross-bracing ensures crane rigidity, prevents crane from binding.
Heavy Duty Class C Single Girder
Series 3 Underhung Motorized Complete Cranes

Many benefits from more features:
• Adjustable Electronic Acceleration Control (EAC) and adjustable brake allow customized speed control to avoid load swing and optimize load control.
• Standard rubber bumpers on cranes and motorized trolleys comply with ASME requirements.
• Side guide rollers reduce wheel friction and noise, providing smooth crane travel and increased wheel and runway life.
• Stationary crane wires are enclosed in conduit to comply with NEC requirements.
• Thermal motor protection is standard to protect motor from overheating.
• Electric hoists with ASME H4 rating maximize lifting capability while minimizing downtime and expense.
• Sealed motors enhance motor life and minimize repair costs.
• Drives deliver synchronous power to two wheels on each end truck for smooth positive traction. (See page 31)

Complete crane system includes:
• End trucks come standard with drives, brakes, bumpers, drop stops, and rail sweeps.
• Crane control panel with adjustable Electronic Acceleration Control (EAC) and thru-the-door lock-out disconnect switch. (See page 28.)
• Crane wiring installed in code-compliant conduit.
• Standard bridge beam assembly with bracing and capacity labels.
• Trolley hoist supplied with operator control pendant.
• Optional runway electrification.
• Documentation including assembly and installation instructions, crane operator’s guide, and owner’s manuals.
• Touch-up paint.
• One year warranty.

Capabilities to count on:
• Capacities through 5 Ton and spans through 50 feet.
• Crane speeds: 40, 80, 120 ft/min single speed, 80/20 ft/min dual speed, or variable speed.
• Motorized trolley speeds: 40 or 80 ft/min single speed, 80/20 ft/min dual speed or variable speed. Also available with manual trolley (geared or push).
• 3 phase voltages: 208, 230/460, 380, 575 (50 or 60 Hz).
• Suitable for use on S or W shaped beam (patented track models available).
SERIES 3 UNDERHUNG MOTORIZED SINGLE GIRDER COMPLETE CRANES — DIMENSIONS

<table>
<thead>
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* Minimum E is M/2.
** These formulas for Width Beyond Span do not apply for flanges greater than 6 inches. For flanges greater than 6 inches, consult factory.

SERIES 3 UNDERHUNG MOTORIZED SINGLE GIRDER COMPLETE CRANES — SPECIFICATIONS

<table>
<thead>
<tr>
<th>Crane Product Code</th>
<th>Speed Codes L and S</th>
<th>Speed Code H</th>
<th>Speed Code D</th>
<th>System Max. Wheel Load* (lbs/wheel pair)</th>
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<td>One Motor Per End Truck</td>
<td>One Motor Per End Truck</td>
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<td>6,960</td>
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</tbody>
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* Minimum E is M/2.
** These formulas for Width Beyond Span do not apply for flanges greater than 6 inches. For flanges greater than 6 inches, consult factory.

的速度代码
L - 表示40英尺每分钟
S - 表示80英尺每分钟
H - 表示120英尺每分钟
D - 表示双速80/20英尺每分钟

产品代码的衍生 - 例如：CUML-3-0235
CU - 完整的单梁起重机
M - 机动
L - 速度40英尺每分钟
S - 系列编号
02 - 最大容量2吨
35 - 最大跨度35英尺
Many benefits from more features:
- Ideal for precision spotting requirements where motorized operation is not necessary.
- Standard rubber bumpers on cranes and motorized trolleys comply with ASME requirements.
- Side guide rollers reduce wheel friction and noise, providing smooth crane travel and increased wheel and runway life.
- Electric hoists with ASME H4 rating maximize lifting capability while minimizing downtime and expense.
- Sealed hoist and trolley motors enhance motor life and minimize repair costs.

Capabilities to count on:
- Capacities through 5 Ton and spans through 45 feet.
- Motorized trolley speeds: 40 or 80 ft/min single speed, 80/20 ft/min dual speed or variable speed. Manual trolleys also available (push or hand geared).
- Suitable for use on S or W shaped beam (patented track models available).

Complete crane system includes:
- End trucks come standard with bumpers, drop stops, and rail sweeps.
- Drive shaft assembly with hand wheel and hand chain.
- Standard bridge beam assembly with bracing and capacity labels.
- Trolley hoist available in a wide selection of styles.
- Power supply to trolley hoist (if required).
- Optional runway electrification.
- Documentation, including assembly and installation instructions, crane operator’s guide, and owner’s manuals.
- Touch-up paint.
- One year warranty.
## SERIES 3 UNDERHUNG GEARED SINGLE GIRDER COMPLETE CRANES — SPECIFICATIONS & DIMENSIONS

<table>
<thead>
<tr>
<th>Cap. (Tons)</th>
<th>Max Span (ft)</th>
<th>Crane Product Code</th>
<th>Wheel Dia. (in)</th>
<th>T Flange Range Std. (in)</th>
<th>A Overall Length (in)</th>
<th>B Roller Base (in)</th>
<th>D Wheel Base (in)</th>
<th>E* Beam Beyond Span (in)</th>
<th>J Hand Wheel Offset (in)</th>
<th>M End Truck Frame Width (in)</th>
<th>U Wheel Running Surface to Top of Beam (in)</th>
<th>X** Width Beyond Span (in)</th>
<th>Y Wheel Running Surface to Upper Most Part of Crane (in)</th>
<th>System Max. Wheel Load† (lbs per wheel pair)</th>
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*Minimum E is M/2.

**These formulas for Width Beyond Span do not apply for flanges greater than 6 inches. For flanges greater than 6 inches, consult factory.

***Standard hand chain drop is 8 ft from bottom of running beam.

† See definition on page 26.
**Heavy Duty Class C Single Girder Series 3 Underhung Push Complete Cranes**

Harrington’s underhung push cranes offer an economical alternative to other cranes. Side guide rollers mean these systems operate much easier than flanged wheel cranes. Push cranes are easily upgradable to motorized or geared operation to meet changing customer needs.

**Many benefits from more features:**
- Compared to flanged wheel cranes, Harrington’s push cranes operate easily, particularly in long span operations.
- Standard rubber bumpers on cranes and motorized trolleys comply with ASME requirements.
- Side guide rollers reduce wheel friction and noise, providing smooth crane travel and increased wheel and runway life.
- Electric hoists with ASME H4 rating maximize lifting capability while minimizing downtime and expense.
- Sealed hoist and trolley motors enhance motor life and minimize repair costs.

**Capabilities to count on:**
- Capacities through 5 Ton and spans through 45 feet.
- Motorized trolley speeds: 40 or 80 ft/min single speed, 80/20 ft/min dual speed or variable speed. Manual trolleys also available (push or geared).
- Suitable for use on S or W shaped beam (patented track models available).

**Complete crane system includes:**
- End trucks come standard with bumpers, drop stops, and rail sweeps.
- Standard bridge beam assembly with bracing and capacity labels.
- Trolley hoist available in a wide selection of styles.
- Power supply to trolley hoist (if required).
- Optional runway electrification.
- Documentation including assembly and installation instructions, crane operator’s guide, and owner’s manuals.
- Touch-up paint.
- One year warranty.
### Series 3 Underhung Push Single Girder Complete Cranes — Specifications & Dimensions

<table>
<thead>
<tr>
<th>Cap. (Tons)</th>
<th>Max Span (ft)</th>
<th>Crane Product Code</th>
<th>Wheel Dia. (in)</th>
<th>T Flange Range Std. (in)</th>
<th>A Overall Length (in)</th>
<th>B Roller Base (in)</th>
<th>D Wheel Base (in)</th>
<th>E* Beam Beyond Span (in)</th>
<th>M End Truck Frame Width (in)</th>
<th>U Wheel Running Surface to Top of Beam (in)</th>
<th>X** Width Beyond Span (in)</th>
<th>Y Wheel Running Surface to Upper Most Part of Crane (in)</th>
<th>System Max. Wheel Load*** (lbs/wheel pair)</th>
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<tbody>
<tr>
<td>2</td>
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<td>CUP-3-0235</td>
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<td>60</td>
<td>53</td>
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<td>T+8.1</td>
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*Minimum E is M/2.

**These formulas for Width Beyond Span do not apply for flanges greater than 6 inches. For flanges greater than 6 inches, consult factory.

***See definition on page 26.

![Diagram of Underhung Push Single Girder Complete Crane](image-url)