

Purpose

To provide dimension and specification information for the Series 3 Single Girder Crane System.

Table of Contents

<u>Page</u>	<u>Type</u>	<u>Description</u>
2	Info Table	Technical Information
3	Data Chart	Series 3 Top Running Motorized Specifications (Imperial & Metric)
4 & 5	Line Drawing	Series 3 Top Running Motorized (Imperial & Metric)
4	Data Chart	Series 3 Top Running Motorized Dimensions (Imperial)
5	Data Chart	Series 3 Top Running Motorized Dimensions (Metric)
6 & 7	Line Drawing	Series 3 Top Running Geared (Imperial & Metric)
6	Data Chart	Series 3 Top Running Geared Dimensions (Imperial)
7	Data Chart	Series 3 Top Running Geared Dimensions (Metric)
8 & 9	Line Drawing	Series 3 Top Running Push (Imperial & Metric)
8	Data Chart	Series 3 Top Running Push Dimensions (Imperial)
9	Data Chart	Series 3 Top Running Push Dimensions (Metric)
10	Data Chart	Series 3 Underhung Motorized Specifications (Imperial)
11	Line Drawing	Series 3 Underhung Motorized (Imperial)
11	Data Chart	Series 3 Underhung Motorized Dimensions (Imperial)
12	Data Chart	Series 3 Underhung Motorized Specifications (Metric)
13	Line Drawing	Series 3 Underhung Motorized (Metric)
13	Data Chart	Series 3 Underhung Motorized Dimensions (Metric)
14	Line Drawing	Series 3 Underhung Geared (Imperial)
14	Data Chart	Series 3 Underhung Geared Dimensions (Imperial)
15	Line Drawing	Series 3 Underhung Geared (Metric)
15	Data Chart	Series 3 Underhung Geared Dimensions (Metric)
16	Line Drawing	Series 3 Underhung Push (Imperial)
16	Data Chart	Series 3 Underhung Push Dimensions (Imperial)
17	Line Drawing	Series 3 Underhung Push (Metric)
17	Data Chart	Series 3 Underhung Push Dimensions (Metric)

Technical Information

System Maximum Wheel Load	This value is given in lbs (or kg) per wheel for Top Runners and in lbs (or kg) per wheel pair for Bottom Runners. It is the maximum load that a wheel (or pair of wheels) will experience for the standard Harrington crane in question. It takes into consideration the weight of the crane and its appurtenances, as well as the hoist/trolley and its load located at its maximum end approach. The value listed in the charts is for a crane with maximum span and capacity, and with Harrington's standard ERM hoist/trolley.
Clearance	OSHA regulations require minimum clearances between the crane and stationary obstructions. In the vertical direction this minimum clearance is 3 inches (76mm) from the upper most part of the crane. In the horizontal direction this minimum clearance is 2 inches (51mm) in any direction from any part of the crane.
Crane Service Class	The Crane Manufacturer's Association of America (CMAA) has established seven service classes for cranes. These classes are Class A through Class F, and are based on load cycles and load magnitude. Class A cranes are suited for the least severe service, and Class F cranes are suited for the most severe service.
Class C Service Class	The load cycle and magnitude combinations that define the Class C Service Class are: <ul style="list-style-type: none">• Load is usually between 1/3 and 2/3 of rated capacity, and is frequently equal to rated capacity, and design service life is 20,000 to 200,000 cycles.• Load is usually 1/3 of rated capacity and is rarely equal to rated capacity, and design service life is 200,000 to 600,000 cycles.• Load is usually very light and rarely is equal to rated capacity, and design service life is 600,000 to 2,000,000 cycles
Span to Length Ratio	The CMAA has established maximum recommended values for the ratio of a crane's span to its end truck's length. For Single Girder Cranes this value is 8 to 1. Harrington's cranes meet this based on the end truck's roller base.

Imperial

SERIES 3 TOP RUNNING MOTORIZED SPECIFICATIONS										
Crane Product Code	Speed Codes L and S			Speed Code H			Speed Code D			System Max. Wheel Load* (lbs/wheel)
	One Motor Per End Truck 3 Phase 60 Hz			One Motor Per End Truck 3 Phase 60 Hz			One Motor Per End Truck 3 Phase 60 Hz			
	Output (Hp)	Rated Current (amps ea.)		Output (Hp)	Rated Current (amps ea.)		Output (Hp)	Rated Current (amps ea.)		
@230V		@460V	@230V		@460V	@230V		@460V		
CTML/S/H/D-3-0135	0.33	1.6	1.0	0.5	2.1	1.3	0.33/0.08	1.6/1.1	0.9/0.8	1,937
CTML/S/H/D-3-0160										2,729
CTML/S/H/D-3-0335										4,843
CTML/S/H/D-3-0360										6,004
CTML/S/H/D-3-0535										7,620
CTML/S/H/D-3-0560	0.5	2.1	1.3	1.0	3.3	2.0	0.5/0.13	2.0/1.5	1.2/0.9	9,209
CTML/S/H/D-3-1035	1.0	3.3	2.0	2.0	5.8	3.1	1.0/0.25	3.7/2.1	2.3/1.4	14,977
CTML/S/H/D-3-1060										16,784

*See explanation in Technical Information Section

Speed Code

L - Designates 40 ft/min

S - Designates 80 ft/min

H - Designates 120 ft/min

D - Designates dual speed 80/20 ft/min

Product code derivation - example: CTML-3-0135

CT - Complete Crane, Top Running

M - Motorized

L - Speed of 40 ft/min

3 - Series number

01 - Max. Capacity - 1 Ton

35 - Maximum span - 35 feet

Metric

SERIES 3 TOP RUNNING MOTORIZED SPECIFICATIONS										
Crane Product Code	Speed Codes L and S			Speed Code H			Speed Code D			System Max. Wheel Load* (kg/wheel)
	One Motor Per End Truck 3 Phase 60 Hz			One Motor Per End Truck 3 Phase 60 Hz			One Motor Per End Truck 3 Phase 60 Hz			
	Output (kW)	Rated Current (amps ea.)		Output (kW)	Rated Current (amps ea.)		Output (kW)	Rated Current (amps ea.)		
@230V		@460V	@230V		@460V	@230V		@460V		
CTML/S/H/D-3-0135	0.25	1.6	1.0	0.4	2.1	1.3	0.25/0.063	1.6/1.1	0.9/0.8	879
CTML/S/H/D-3-0160										1,238
CTML/S/H/D-3-0335										2,197
CTML/S/H/D-3-0360										2,723
CTML/S/H/D-3-0535										3,456
CTML/S/H/D-3-0560	0.4	2.1	1.3	.75	3.3	2.0	0.4/0.1	2.0/1.5	1.2/0.9	4,177
CTML/S/H/D-3-1035	.75	3.3	2.0	1.5	5.8	3.1	0.75/0.19	3.7/2.1	2.3/1.4	6,793
CTML/S/H/D-3-1060										7,613

*See explanation in Technical Information Section

Speed Code

L - Designates 12 m/min

S - Designates 24 m/min

H - Designates 36 m/min

D - Designates dual speed 24/6 m/min

Product code derivation - example: CTML-3-0135

CT - Complete Crane, Top Running

M - Motorized

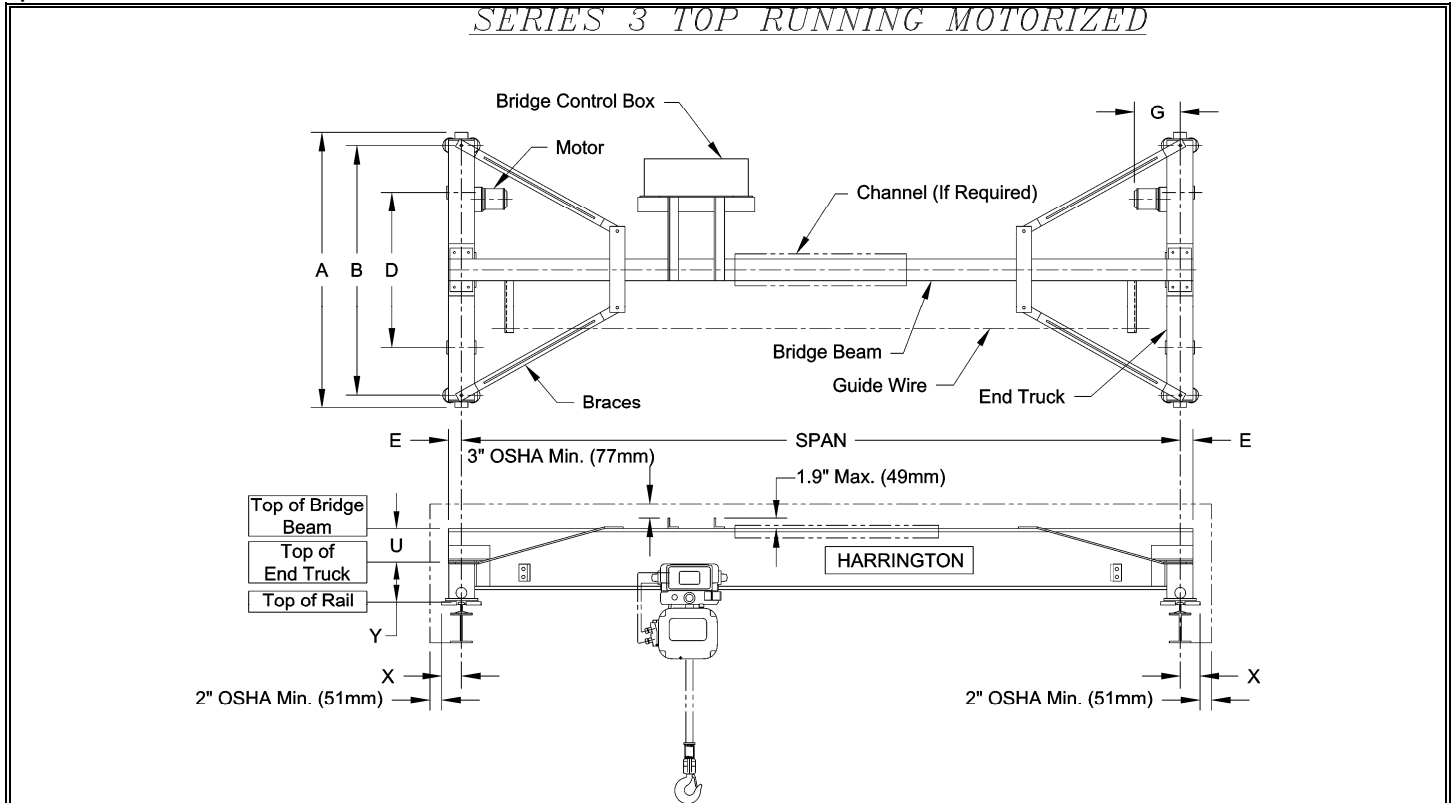
L - Speed of 12 m/min

3 - Series number

01 - Max. Capacity - 1 Ton

35 - Maximum span 10.7 Meters

Imperial

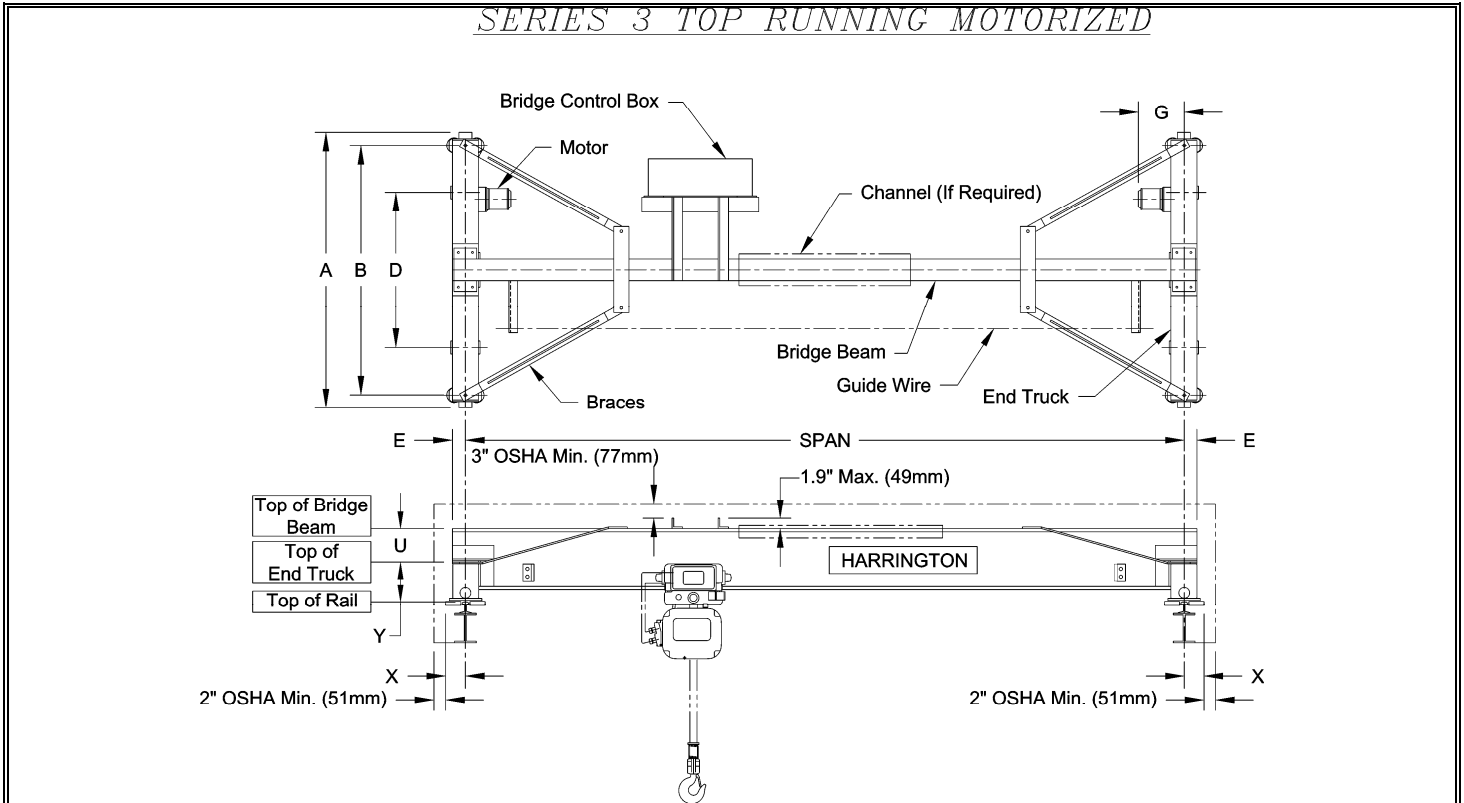


SERIES 3 TOP RUNNING MOTORIZED DIMENSIONS

Cap. (Tons)	Max. Span (ft)	End Truck Product Code	Wheel Diameter (in)	Sug. Min. Runway Rail (ACSE#)	A Overall Length (in)	B Roller Base (in)	D Wheel Base (in)	E Beam Beyond Span (in)	U Top of End Truck to Top of Beam (in)	X** Width Beyond Span (in)	Y Top of Rail to Top of End Truck (in)	G Motor (in)			
1	35	TML/S/H/D-3-0135	3.74	30	61	53	43	2.4	8.4 (10.4 for cranes using 10" beam)	4.6	7.1	12.7 (L/S)			
	60	TML/S/H/D-3-0160			98	90	80					13.1 (H)			
3	35	TML/S/H/D-3-0335	6.10		62	54	43	4.1				8.5	4.7	9.2	13.0 (L/S)
	60	TML/S/H/D-3-0360			99	91	80								13.4 (H)
5	35	TML/S/H/D-3-0535	8.27	40	62	54	43	3.9	8.5	4.7	9.3	15.0 (L/S/D)			
	60	TML/S/H/D-3-0560			99	90	74					15.4 (H)			
10	35	TML/S/H/D-3-1035	9.84	60	63	53	37	6.0	12.5	6.3	11.3	17.4 (L/S/D)			
	60	TML/S/H/D-3-1060			100	90	74					18.7 (H)			

** Based on suggested minimum runway rail.

Metric



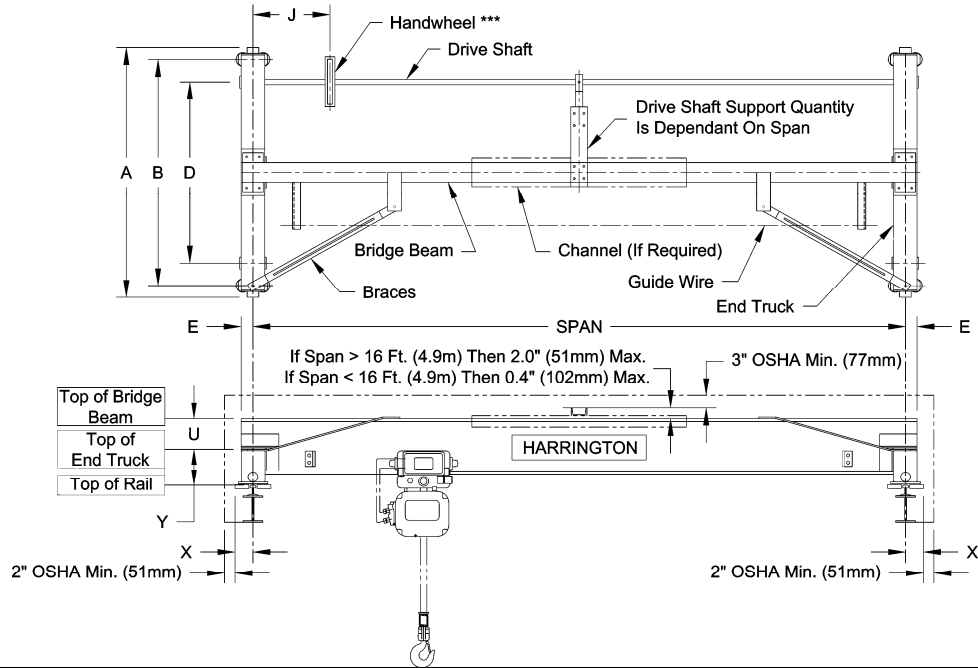
SERIES 3 TOP RUNNING MOTORIZED DIMENSIONS

Cap. (Tons)	Max. Span (m)	End Truck Product Code	Wheel Diameter (mm)	Sug. Min. Runway Rail (ACSE#)	A Overall Length (mm)	B Roller Base (mm)	D Wheel Base (mm)	E Beam Beyond Span (mm)	U Top of End Truck to Top of Beam (mm)	X** Width Beyond Span (mm)	Y Top of Rail to Top of End Truck (mm)	G Motor (mm)			
1	10.7	TML/S/H/D-3-0135	95	30	1549	1346	1092	61	213 (264 for cranes using 254mm beam)	117	180	323 (L/S) 333 (H) 356 (D)			
	18.3	TML/S/H/D-3-0160			2489	2286	2032								
3	10.7	TML/S/H/D-3-0335	155		1575	1372	1092	104				216	119	234	330 (L/S) 340 (H) 363 (D)
	18.3	TML/S/H/D-3-0360			2515	2311	2032								
5	10.7	TML/S/H/D-3-0535	210	40	1575	1372	1092	99	119	236	381 (L/S/D) 391 (H)				
	18.3	TML/S/H/D-3-0560			2515	2286	1880								
10	10.7	TML/S/H/D-3-1035	250	60	1600	1346	940	152	160	287	442 (L/S/D) 475 (H)				
	18.3	TML/S/H/D-3-1060			2540	2286	1880								

** Based on suggested minimum runway rail.

Imperial

SERIES 3 TOP RUNNING GEARED



SERIES 3 TOP RUNNING GEARED SPECIFICATIONS AND DIMENSIONS

Cap. (Tons)	Max. Span (ft)	Crane Product Code	Wheel Diameter (in)	Sug. Min. Runway Rail (ACSE#)	A Overall Length (in)	B Roller Base (in)	D Wheel Base (in)	E Beam Beyond Span (in)	J Hand Wheel Offset (in)	U Top of End Truck to Top of Beam (in)	X* Width Beyond Span (in)	Y Top of Rail to Top of End Truck (in)	System Max. Wheel Load** (lbs/wheel)			
1	35	CTG-3-0135	3.74	30	61	53	43	2.4	9.7	8.4 (10.4 for cranes using 10" beam)	4.6	7.1	1,921			
	50	CTG-3-0150			98	90	80						2,322			
3	35	CTG-3-0335	6.10		62	54	43	4.1	10.0				8.5	4.7	9.2	7,604
	50	CTG-3-0350			99	91	80								5,311	
5	35	CTG-3-0535	8.27	40	62	54	43	3.9	10.3	8.5	4.7	9.3	8,219			
	50	CTG-3-0550			99	90	74					8,219				

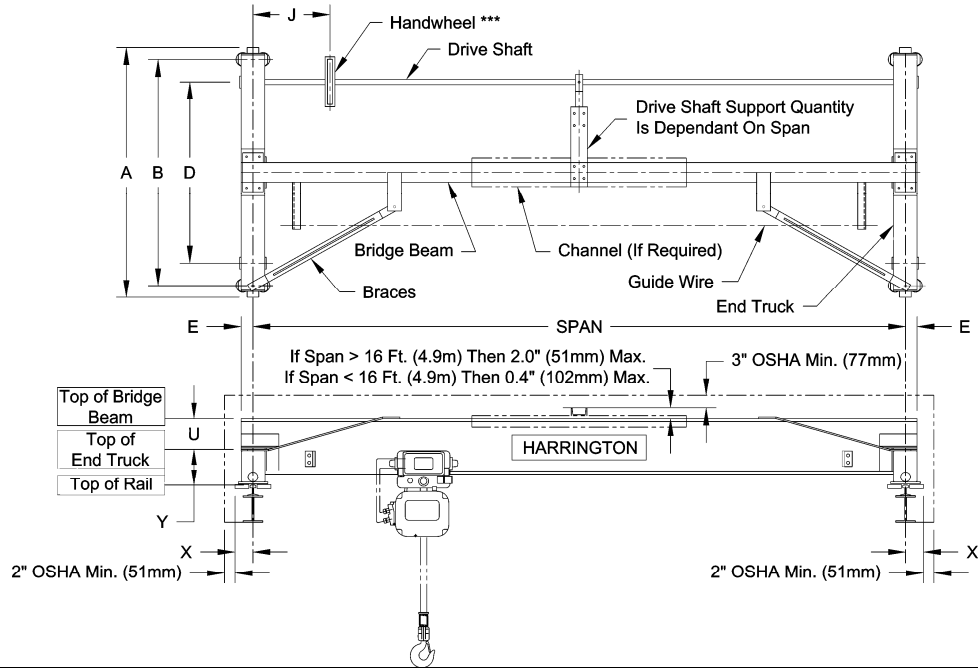
* Based on suggested minimum runway rail.

**See explanation in Technical Information Section

***Standard hand chain drop is 8 ft. from top of runway rail

Metric

SERIES 3 TOP RUNNING GEARED



SERIES 3 TOP RUNNING GEARED SPECIFICATIONS AND DIMENSIONS

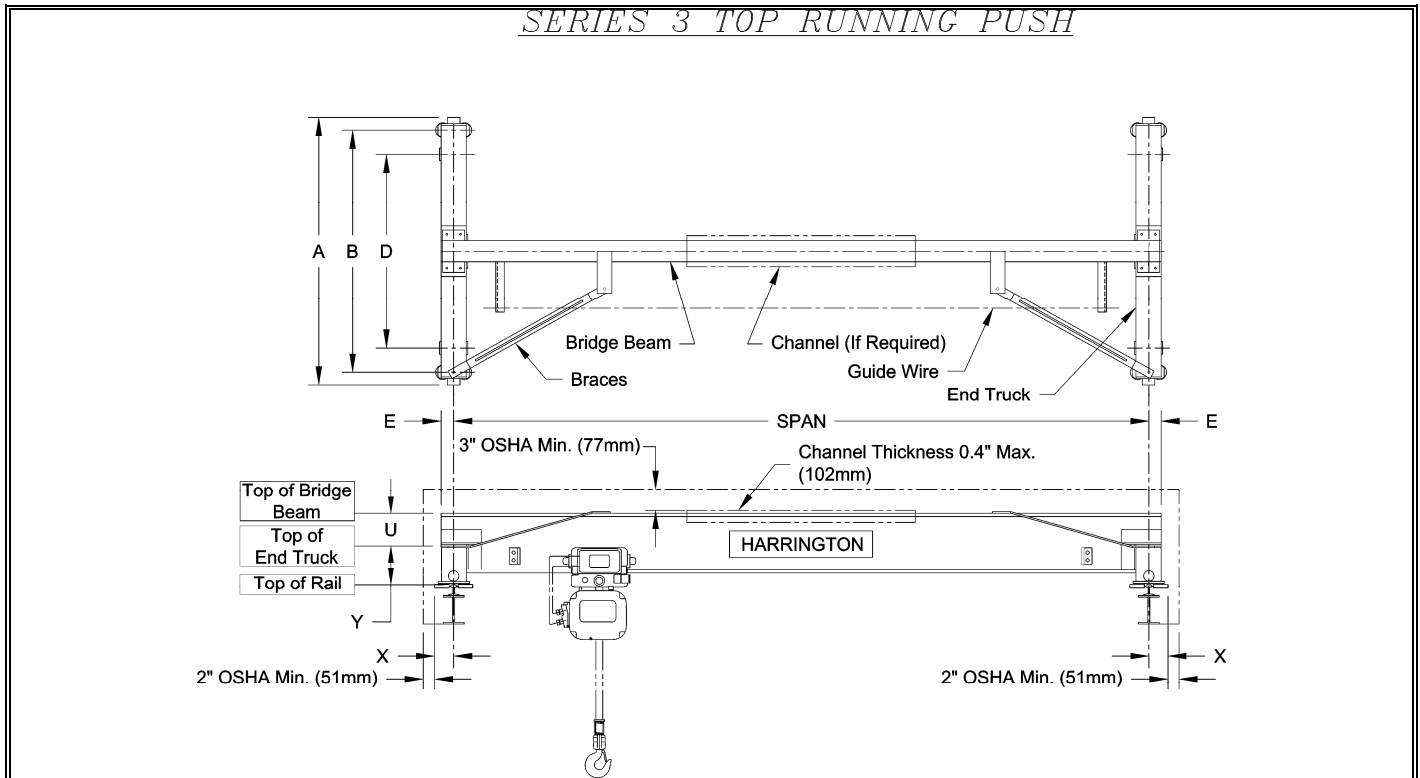
Cap. (Tons)	Max. Span (m)	Crane Product Code	Wheel Diameter (mm)	Sug. Min. Runway Rail (ACSE#)	A Overall Length (mm)	B Roller Base (mm)	D Wheel Base (mm)	E Beam Beyond Span (mm)	J Hand Wheel Offset (mm)	U Top of End Truck to Top of Beam (mm)	X* Width Beyond Span (mm)	Y Top of Rail to Top of End Truck (mm)	System Max. Wheel Load** (kg/wheel)			
1	10.7	CTG-3-0135	95	30	1549	1346	1092	61	247	213 (264 for cranes using 254mm beam)	117	181	871			
	15.2	CTG-3-0150			2489	2286	2032						1,053			
3	10.7	CTG-3-0335	155		1575	1372	1092	104	254				216	119	234	2,190
	15.2	CTG-3-0350			2515	2311	2032									2,409
5	10.7	CTG-3-0535	210	40	1575	1372	1092	99	262	216	119	236	3,449			
	15.2	CTG-3-0550			2515	2286	1880						3,728			

* Based on suggested minimum runway rail.

**See explanation in Technical Information Section

***Standard hand chain drop is 2.4 meters (8ft) from top of runway rail

Imperial



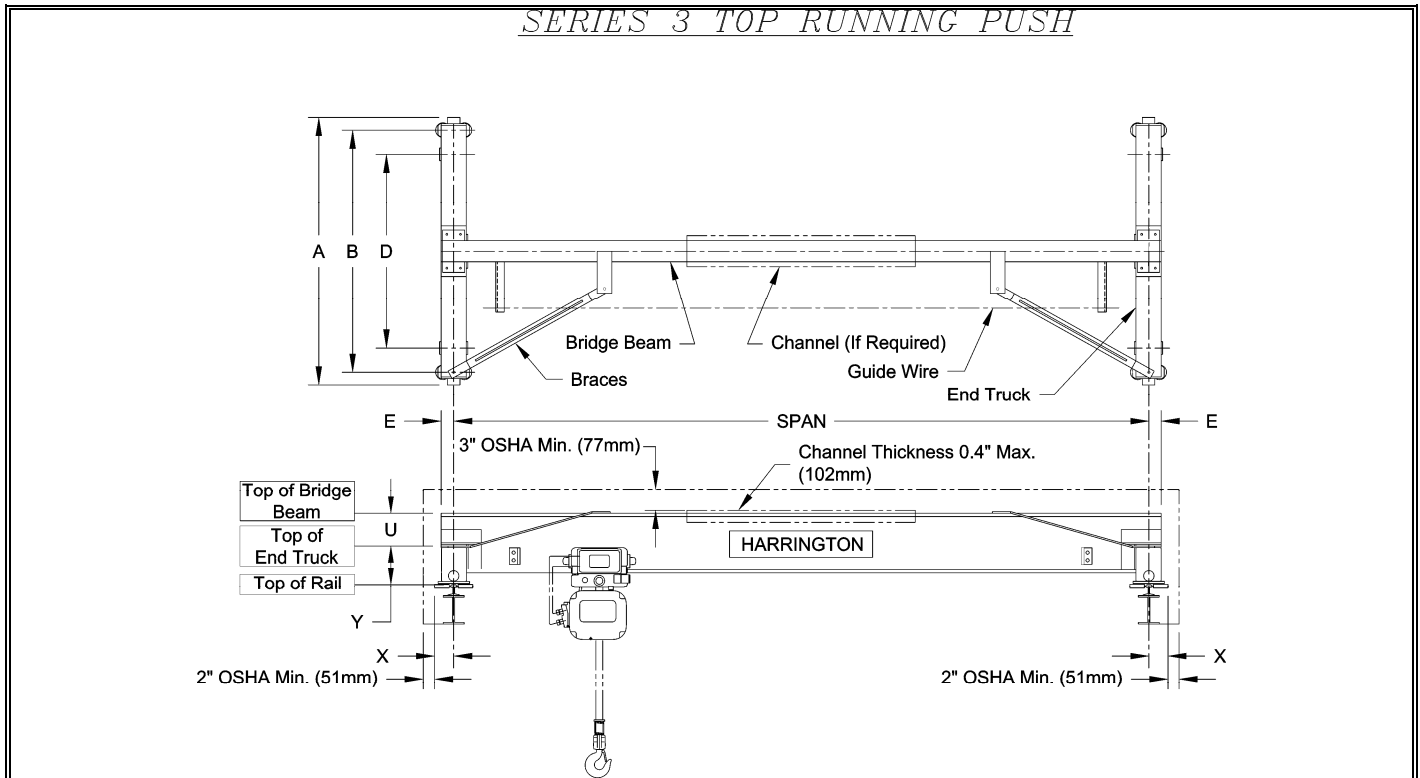
SERIES 3 TOP RUNNING PUSH SPECIFICATIONS AND DIMENSIONS

Cap. (Tons)	Max. Span (ft)	Crane Product Code	Wheel Diameter (in)	Sug. Min. Runway Rail (ACSE#)	A Overall Length (in)	B Roller Base (in)	D Wheel Base (in)	E Beam Beyond Span (in)	U Top of End Truck to Top of Beam (in)	X* Width Beyond Span (in)	Y Top of Rail to Top of End Truck (in)	System Max. Wheel Load** (lbs/wheel)
1	35	CTP-3-0135	3.74	30	61	53	43	2.4	8.4 (10.4 for cranes using 10" beam)	4.6	7.1	1,916
	45	CTP-3-0145			98	90	80					2,207
2	45	CTP-3-0245	99		91	80	4.1	3,755				
3	35	CTP-3-0335	62		54	43		4,822				
5	35	CTP-3-0535	6.10		40	62	54	43				8.5

* Based on suggested minimum runway rail.

**See explanation in Technical Information Section

Metric



SERIES 3 TOP RUNNING PUSH SPECIFICATIONS AND DIMENSIONS

Cap. (Tons)	Max. Span (m)	Crane Product Code	Wheel Diameter (mm)	Sug. Min. Runway Rail (ACSE#)	A Overall Length (mm)	B Roller Base (mm)	D Wheel Base (mm)	E Beam Beyond Span (mm)	U Top of End Truck to Top of Beam (mm)	X* Width Beyond Span (mm)	Y Top of Rail to Top of End Truck (mm)	System Max. Wheel Load** (kg/wheel)
1	10.7	CTP-3-0135	95	30	1549	1346	1092	61	213 (264 for cranes using 254mm beam)	117	180	869
	13.7	CTP-3-0145			2489	2286	1,001					
2	13.7	CTP-3-0245	155	30	2515	2311	2032	104	213 (264 for cranes using 254mm beam)	117	180	1,703
3	10.7	CTP-3-0335			1575	1372	1092					2,187
5	10.7	CTP-3-0535			40	1575	1372					1092

* Based on suggested minimum runway rail.

**See explanation in Technical Information Section

Imperial

SERIES 3 UNDERHUNG MOTORIZED SPECIFICATIONS										
Crane Product Code	Speed Codes L and S			Speed Code H			Speed Code D			System Max. Wheel Load* (lbs per wheel pair)
	One Motor Per End Truck 3 Phase 60 Hz			One Motor Per End Truck 3 Phase 60 Hz			One Motor Per End Truck 3 Phase 60 Hz			
	Output (Hp)	Rated Current (amps ea.)		Output (Hp)	Rated Current (amps ea.)		Output (Hp)	Rated Current (amps ea.)		
		@230V	@460V		@230V	@460V		@230V	@460V	
CUML/S/H/D-3-0235	0.33	1.6	1.0	0.5	2.1	1.3	0.33/0.08	1.6/1.1	0.9/0.8	3,170
CUML/S/H/D-3-0250										3,930
CUML/S/H/D-3-0335										4,480
CUML/S/H/D-3-0350										5,170
CUML/S/H/D-3-0535	0.5	2.1	1.3	1.0	3.3	2.0	0.5/0.13	2.0/1.5	1.2/0.9	6,960
CUML/S/H/D-3-0550										7,670

*See explanation in Technical Information Section

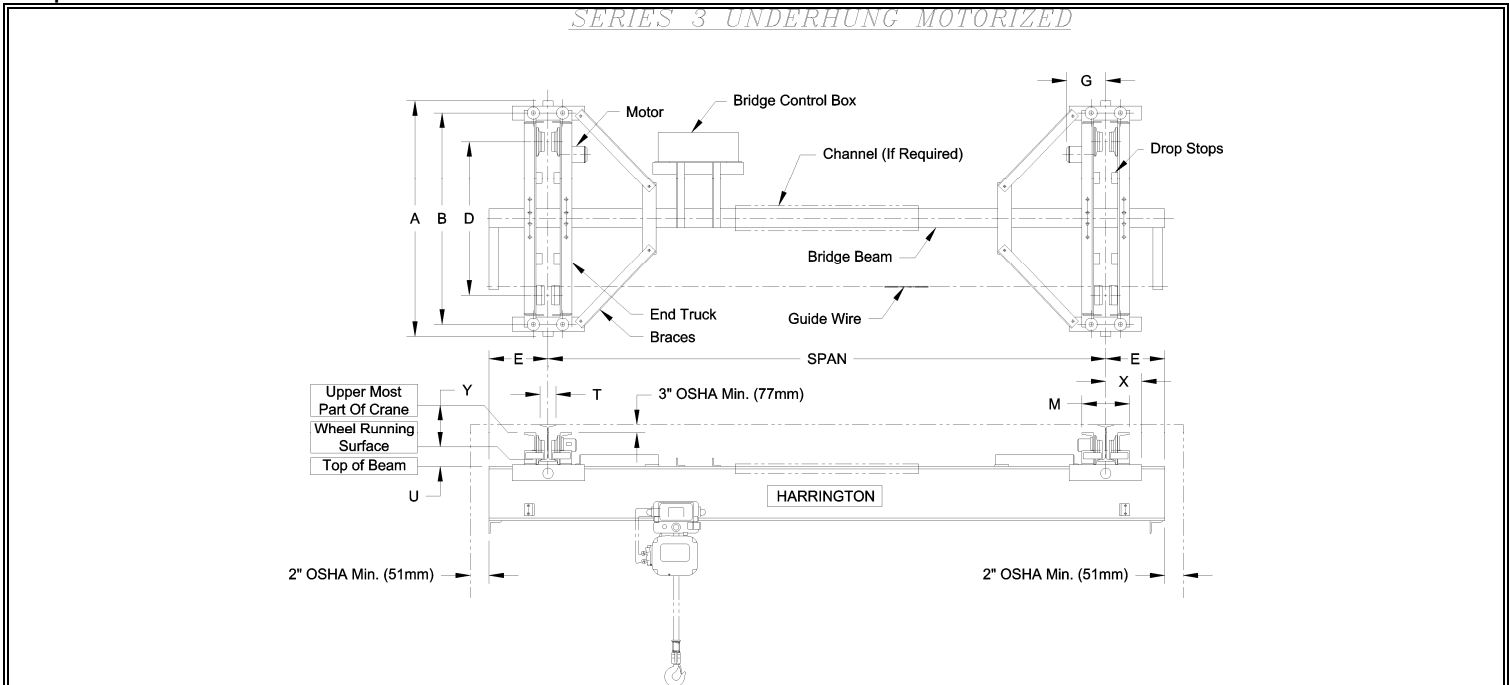
Speed Code

- L - Designates 40 ft/min
- S - Designates 80 ft/min
- H - Designates 120 ft/min
- D - Designates dual speed 80/20 ft/min

Product code derivation - example: CUML-3-0235

- CU - Complete Crane, Underhung
- M - Motorized
- L - Speed of 40 ft/min
- 3 - Series number
- 02 - Max. Capacity - 2 Ton
- 35 - Maximum span - 35 feet

Imperial



SERIES 3 UNDERHUNG MOTORIZED DIMENSIONS

Cap. (Tons)	Max. Span (ft)	Crane Product Code	Wheel Diameter (in)	T Flange Range Std. (in)	A Overall Length (in)	B Roller Base (in)	D Wheel Base (in)	E* Beam Beyond Span (in)	M End Truck Frame Width (in)	U Wheel Running Surface to Top of Beam (in)	X** Width Beyond Span (in)	Y Wheel Running Surface to Upper Most Part of Crane (in)	G Motor (in)
2	35	CUML/S/H/D-3-0235	4.33	3 - 6	60	53	39	12	T+8.1	1.8	11.3-T/2	6.5	T/2 + 11.9 (L/S) T/2 + 12.3 (H) T/2 + 13.3 (D)
	50	CUML/S/H/D-3-0250			82	75	61						
3	35	CUML/S/H/D-3-0335	4.92		60	53	35		T+8.2	1.9			
	50	CUML/S/H/D-3-0350			82	75	57						
5	35	CUML/S/H/D-3-0535	5.51	4 - 6	60	53	33	T+9.8	2.0	6.8	T/2+13.7 (L/S/D) T/2+14.2 (H)		
	50	CUML/S/H/D-3-0550			82	75	55						

* 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.

Metric

SERIES 3 UNDERHUNG MOTORIZED SPECIFICATIONS										
Crane Product Code	Speed Codes L and S			Speed Code H			Speed Code D			System Max. Wheel Load* (kg per wheel pair)
	One Motor Per End Truck 3 Phase 60 Hz			One Motor Per End Truck 3 Phase 60 Hz			One Motor Per End Truck 3 Phase 60 Hz			
	Output (kW)	Rated Current (amps ea.)		Output (kW)	Rated Current (amps ea.)		Output (kW)	Rated Current (amps ea.)		
		@230V	@460V		@230V	@460V		@230V	@460V	
CUML/S/H/D-3-0235	0.25	1.6	1.0	0.4	2.1	1.3	0.25/0.063	1.6/1.1	0.9/0.8	1,438
CUML/S/H/D-3-0250										1,783
CUML/S/H/D-3-0335										2,032
CUML/S/H/D-3-0350										2,345
CUML/S/H/D-3-0535	0.4	2.1	1.3	.75	3.3	2.0	0.4/0.1	2.0/1.5	1.2/0.9	3,157
CUML/S/H/D-3-0550										3,479

*See explanation in Technical Information Section

Speed Code

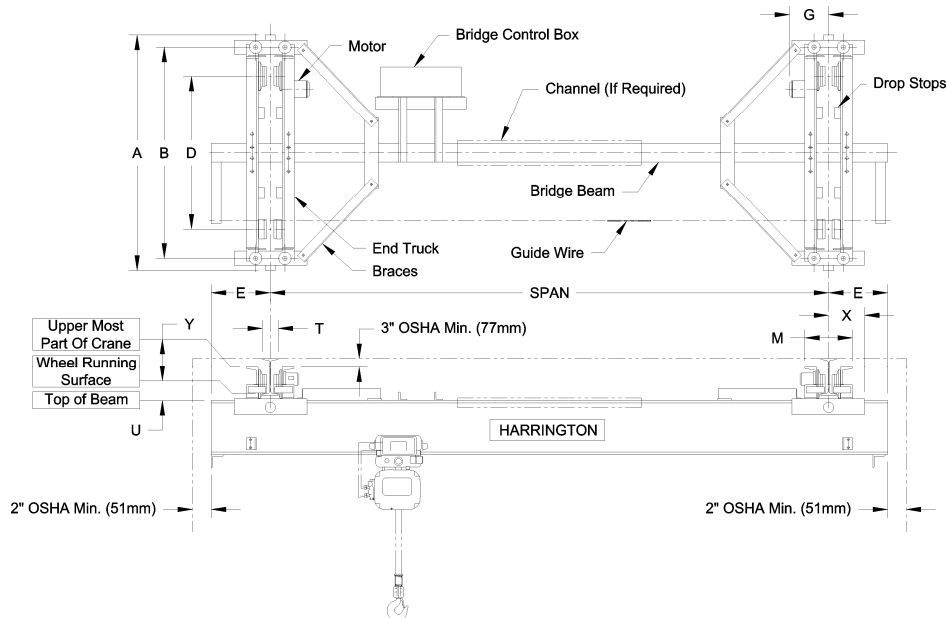
- L - Designates 12 m/min
- S - Designates 24 m/min
- H - Designates 36 m/min
- D - Designates dual speed 24/6 m/min

Product code derivation - example: CUML-3-0235

- CU - Complete Crane, Underhung
- M - Motorized
- L - Speed of 12 m/min
- 3 - Series number
- 02 - Max. Capacity - 2 Ton
- 35 - Maximum span - 10.7 Meters

Metric

SERIES 3 UNDERHUNG MOTORIZED



SERIES 3 UNDERHUNG MOTORIZED DIMENSIONS

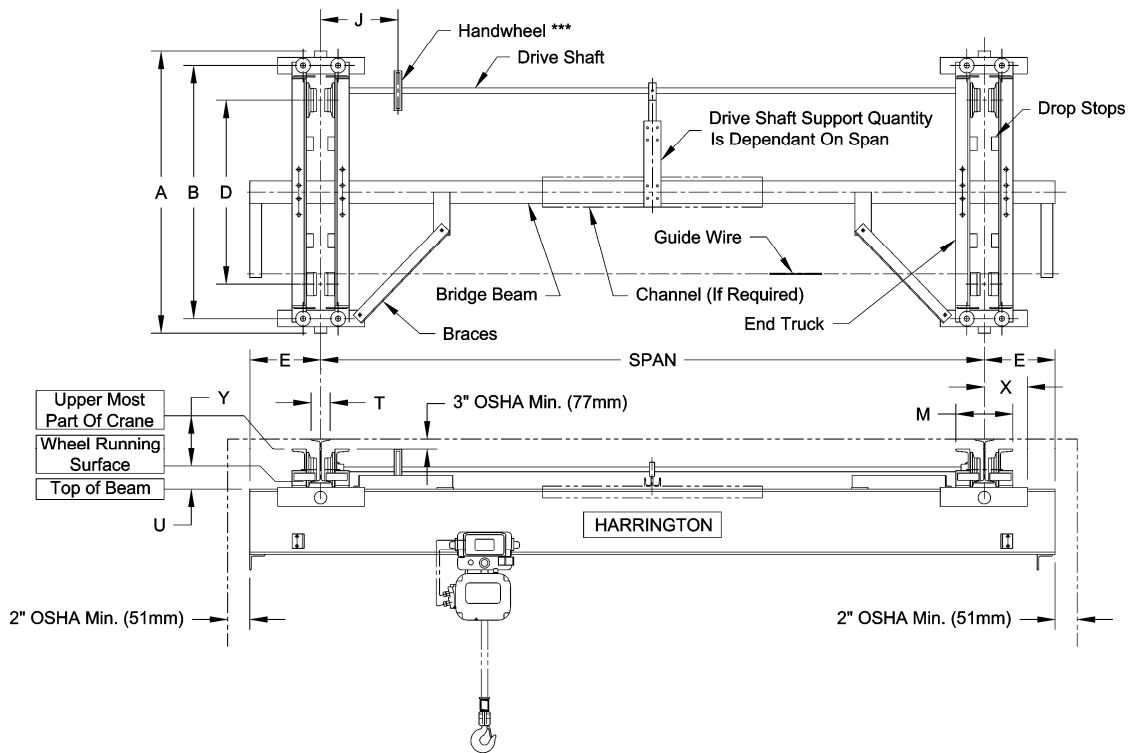
Cap. (Tons)	Max. Span (m)	Crane Product Code	Wheel Diameter (mm)	T Flange Range Std. (mm)	A Overall Length (mm)	B Roller Base (mm)	D Wheel Base (mm)	E* Beam Beyond Span (mm)	M End Truck Frame Width (mm)	U Wheel Running Surface to Top of Beam (mm)	X** Width Beyond Span (mm)	Y Wheel Running Surface to Upper Most Part of Crane (mm)	G Motor (mm)
2	10.7	CUML/S/H/D-3-0235	110	76-152	1524	1346	991	305	T+206	46	287-T/2	165	T/2 + 302 (L/S) T/2 + 312 (H) T/2 + 338 (D)
	15.2	CUML/S/H/D-3-0250			2083	1905	1549						
3	10.7	CUML/S/H/D-3-0335	125		1524	1346	889		T+208	48			
	15.2	CUML/S/H/D-3-0350			2083	1905	1448						
5	10.7	CUML/S/H/D-3-0535	140	102-152	1524	1346	838	T+249	51	173	T/2+348 (L/S/D) T/2+361 (H)		
	15.2	CUML/S/H/D-3-0550			2083	1905	1397						

* Minimum E is M/2

**These formulas for Width Beyond Span do not apply for flanges greater than 152mm (6"). For flanges greater than 152mm (6"), consult factory.

Imperial

SERIES 3 UNDERHUNG GEARED



SERIES 3 UNDERHUNG GEARED SPECIFICATIONS AND DIMENSIONS

Cap. (Tons)	Max. Span (ft)	Crane Product Code	Wheel Diameter (in)	T Flange Range Std. (in)	A Overall Length (in)	B Roller Base (in)	D Wheel Base (in)	E* Beam Beyond Span (in)	J Hand Wheel Offset (in)	M End Truck Frame Width (in)	U Wheel Running Surface to Top of Beam (in)	X** Width Beyond Span (in)	Y Wheel Running Surface to Upper Most Part of Crane (in)	System Max. Wheel Load**** (lbs per wheel pair)
2	35	CUG-3-0235	4.33	3 - 6	60	53	39	12	T/2+9.0	T+8.1	1.8	11.3 - T/2	6.5	3,160
	45	CUG-3-0245			82	75	61		T/2+9.0	T+8.1				3,620
3	35	CUG-3-0335	4.92		60	53	35		T/2+8.9	T + 8.2	1.9			4,480
	45	CUG-3-0345			82	75	57		T/2+8.9	T + 8.2				4,990
5	35	CUG-3-0535	5.51	4 - 6	60	53	33	T/2+9.0	T+9.8	2.0	6.8	6,950		
	45	CUG-3-0545			82	75	55					7,400		

* Minimum E is M/2

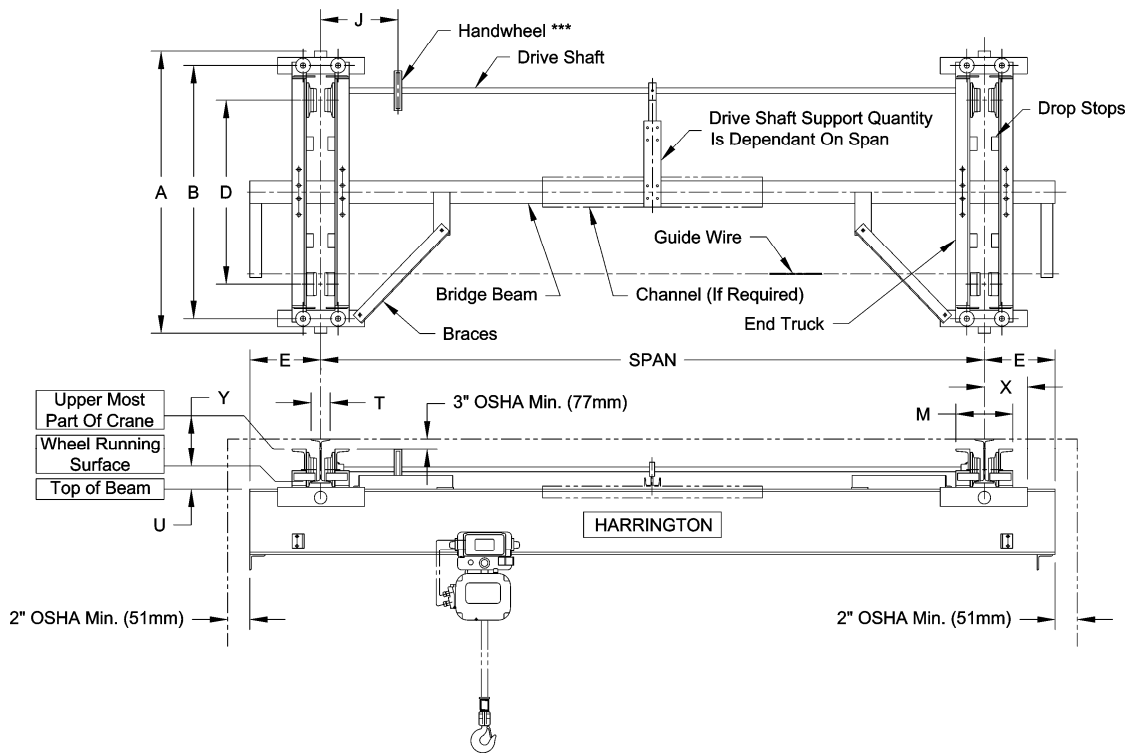
**These formulas for Width Beyond Span do not apply for flanges greater than 6 inches. For flanges greater than 6 inches, consult factory.

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

****See explanation in Technical Information Section

Metric

SERIES 3 UNDERHUNG GEARED



SERIES 3 UNDERHUNG GEARED SPECIFICATIONS AND DIMENSIONS

Cap. (Tons)	Max. Span (m)	Crane Product Code	Wheel Diameter (mm)	T Flange Range Std. (mm)	A Overall Length (mm)	B Roller Base (mm)	D Wheel Base (mm)	E* Beam Beyond Span (mm)	J Hand Wheel Offset (mm)	M End Truck Frame Width (mm)	U Wheel Running Surface to Top of Beam (mm)	X** Width Beyond Span (mm)	Y Wheel Running Surface to Upper Most Part of Crane (mm)	System Max. Wheel Load**** (kg per wheel pair)
2	10.7	CUG-3-0235	110	76-152	1524	1346	991	305	T/2+229	T+206	46	287-T/2	165	1,433
	13.7	CUG-3-0245			2083	1905	1549		T+206	1,642				
3	10.7	CUG-3-0335	125		1524	1346	889		T/2+226	T+208	48			2,032
	13.7	CUG-3-0345			2083	1905	1448		T+208	2,263				
5	10.7	CUG-3-0535	140	102-152	1524	1346	838	305	T/2+229	T+249	51	173	173	3,153
	13.7	CUG-3-0545			2083	1905	1397		T+249	3,357				

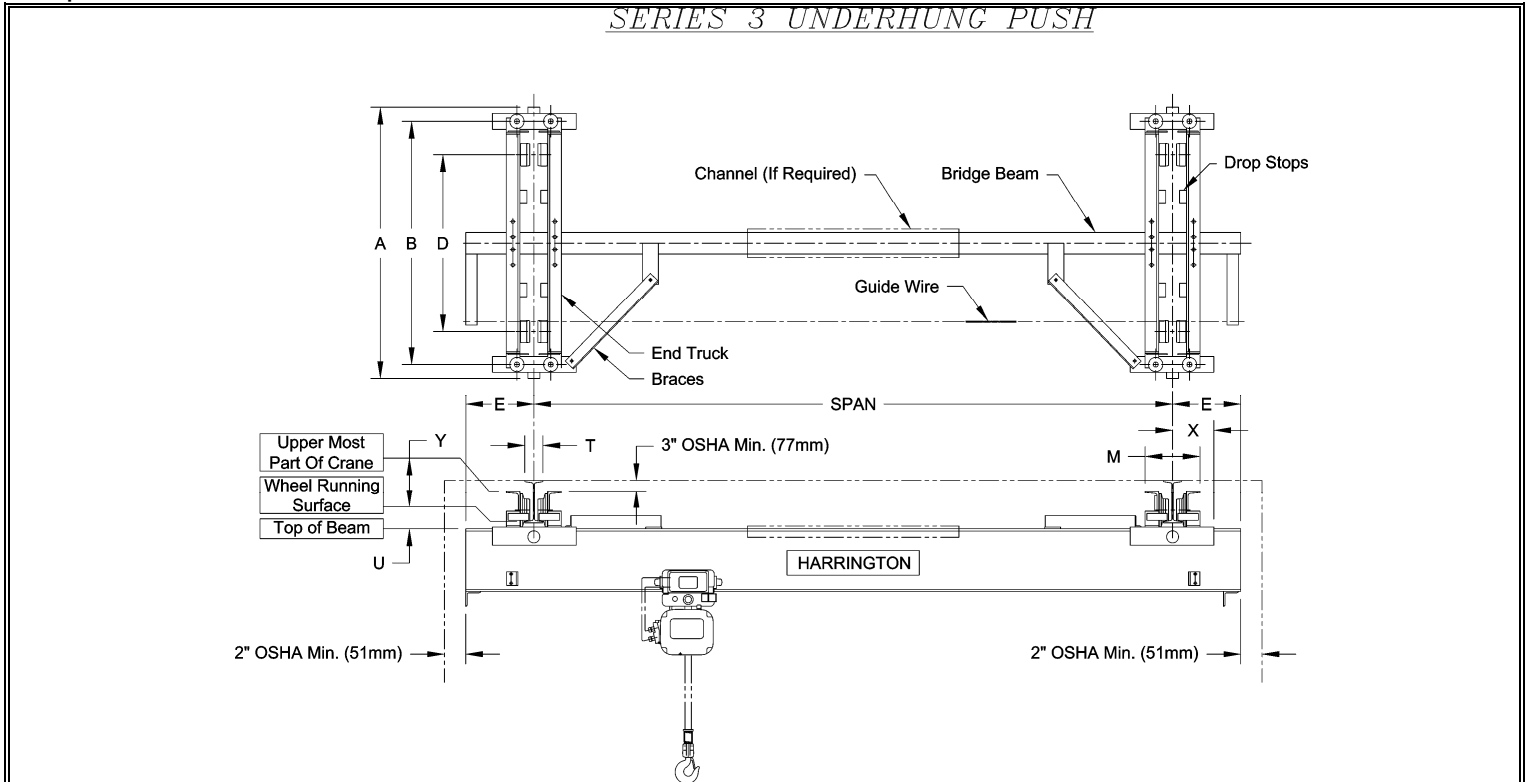
* Minimum E is M/2

**These formulas for Width Beyond Span do not apply for flanges greater than 152 meters (6"). For flanges greater than 152 meters (6"), consult factory.

***Standard hand chain drop is 2.4m (8ft). from bottom of runway beam

****See explanation in Technical Information Section

Imperial



SERIES 3 UNDERHUNG PUSH SPECIFICATIONS AND DIMENSIONS

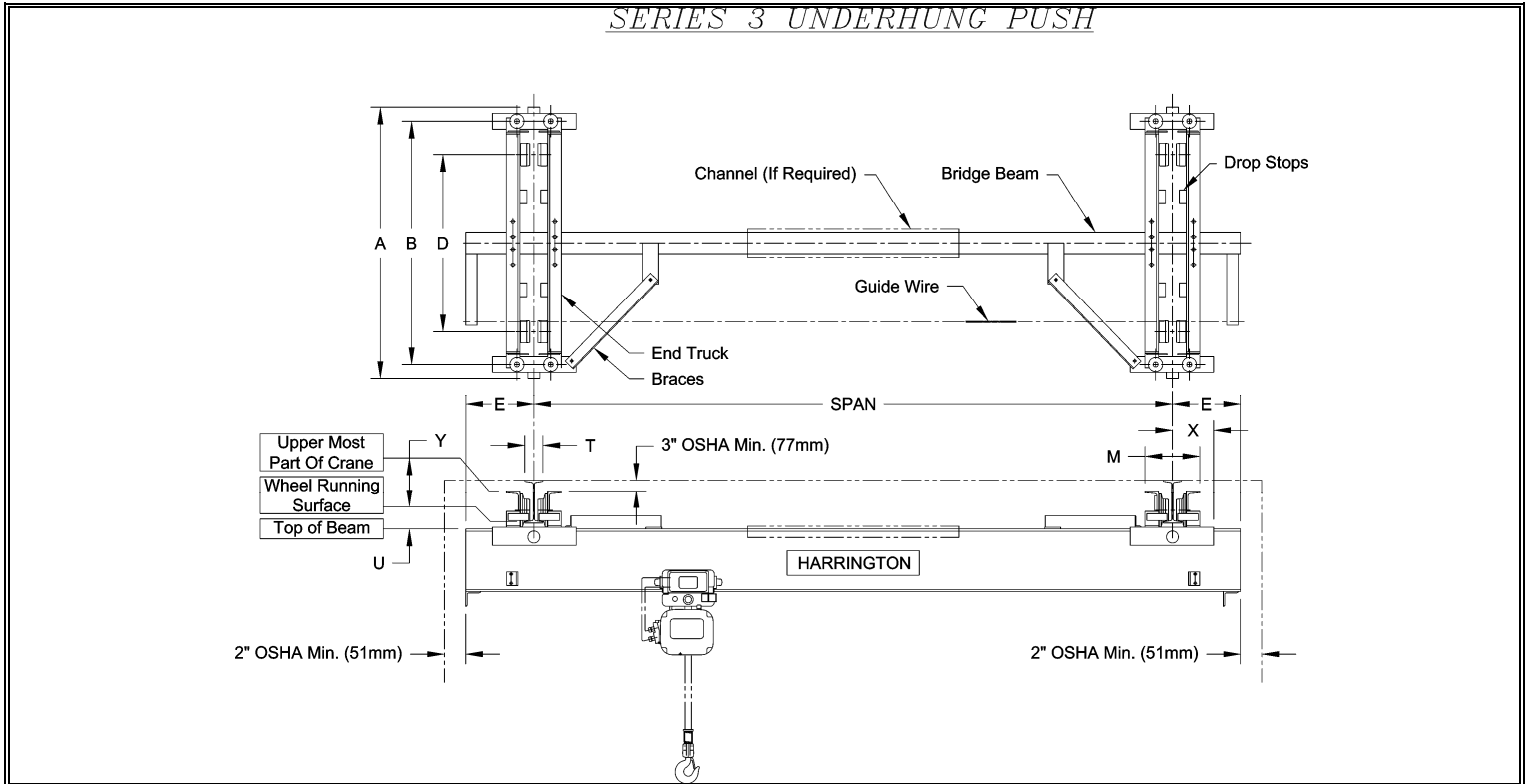
Cap. (Tons)	Max. Span (ft)	Crane Product Code	Wheel Diameter (in)	T Flange Range Std. (in)	A Overall Length (in)	B Roller Base (in)	D Wheel Base (in)	E * Beam Beyond Span (in)	M End Truck Frame Width (in)	U Wheel Running Surface to Top of Beam (in)	X** Width Beyond Span (in)	Y Wheel Running Surface to Upper Most Part of Crane (in)	System Max. Wheel Load*** (lbs per wheel pair)
2	35	CUP-3-0235	4.33	3 - 6	60	53	39	12	T+8.1	1.8	11.3 - T/2	6.5	3,150
	45	CUP-3-0245			82	75	61		T + 8.2	1.9			3,580
3	35	CUP-3-0335	4.92		60	53	35		T + 9.8	2.0			4,440
5	35	CUP-3-0535	5.51	4 - 6	60	53	33				6.4	6,910	

* 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 explanation in Technical Information Section

Metric



SERIES 3 UNDERHUNG PUSH SPECIFICATIONS AND DIMENSIONS

Cap. (Tons)	Max. Span (m)	Crane Product Code	Wheel Diameter (mm)	T Flange Range Std. (mm)	A Overall Length (mm)	B Roller Base (mm)	D Wheel Base (mm)	E * Beam Beyond Span (mm)	M End Truck Frame Width (mm)	U Wheel Running Surface to Top of Beam (mm)	X** Width Beyond Span (mm)	Y Wheel Running Surface to Upper Most Part of Crane (mm)	System Max. Wheel Load*** (kg per wheel pair)
2	10.7	CUP-3-0235	110	76- 152	1524	1346	991	305	T+206	46	287-T/2	165	1,429
	13.7	CUP-3-0245			2083	1905	1549						1,624
3	10.7	CUP-3-0335	125		1524	1346	889		T +208	48			2,014
5	10.7	CUP-3-0535	140	102 -152	1524	1346	838		T+249	51		163	3,134

* Minimum E is M/2

**These formulas for Width Beyond span do not apply for flanges greater than 152mm (6"). For flanges greater than 152mm (6"), consult factory.

***See explanation in Technical Information Section

END