

TM—Single Girder Top Running Motorized End Trucks

For heavy-duty class "C" single girder crane applications, nothing tops Harrington top running motorized end trucks. Along with a full range of features, end truck kits include: two trucks; two sealed, totally enclosed, non-ventilated (TENV) motors with adjustable D.C. brakes; two helical gear reducers; rubber bumpers; and bridge beam fastener set. All trucks are fully painted. Bridge fabrication prints are also included. As a member of Crane Manufacturers Association of America (CMAA), Harrington builds TM trucks to meet current industry and regulatory codes.

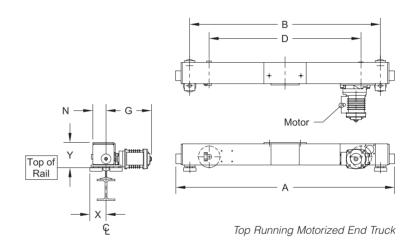
- Frame fabrication from ASTM A500 structural tube for superior strength, rigidity and compactness.
- Reduced wheel friction due to heavy-duty side guide rollers results in smooth crane travel—guide rollers are 3 1/2" O.D. (5" on 10 T) with fixed steel axles.
- Minimize assembly labor with fully machined frames—girder connection, bracing and collector mounting bracket holes are drilled and tapped for easy installation.
- Purchase the right component for the job—dedicated models for capacities of 1, 3, 5 and 10 Ton, with maximum span increments of 35' or 60'.
- Suitable for use on ASCE crane rail or square bar—wheels are machined steel with flat tread and each has 2 deep groove ball bearings, meeting L10 bearing life criteria for class C cranes.
- Sealed TENV drives with quiet, smooth-operating helical gear reducers.
- Gear reducer is designed for easy field conversion between L and S speeds.
- Drives are designed for crane service, with 30 minute rating and feature cooling fins for efficient heat dissipation.
- Externally adjustable D.C. brakes allow controlled deceleration—adjustable up to 50% of rated motor torque.
- Thermal motor protection is standard.
- Drives and brakes are compatible with Electronic Acceleration Control (EAC) and Variable Frequency Drive (VFD).
- Drives are connectable for 230/460V-3-60 (including dual speed models). Other voltages available.
- Rail sweeps and drop stops are standard.
- Longer or shorter end truck lengths are available—consult factory.



TM — TOP RUNNING MOTORIZED END TRUCK — DIMENSIONS

Cap. (Tons)	Max. Span (ft)	End Truck Product Code	Wheel Dia. (in)	Sug. Min. Runway Rail (ASCE#)	A Overall Length (in)	B Roller Base (in)	D Wheel Base (in)	N Runway Ctr. Line to Outer Edge of ET Tube (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		61	53	43	2.1		7.1	12.7 (L/S)
_ '	. 60 TML/S/H/D 35 TML/S/H/D	TML/S/H/D-3-0160	3.74	30	98	90	80	2.1	4.6		13.1 (H) 14.0 (D)
3		TML/S/H/D-3-0335		30	62	54	43		4.0		40.0
3	60	TML/S/H/D-3-0360	6.10		99	91	80	3.8			13.0 (L/S) 13.4 (H)
_	35	TML/S/H/D-3-0535		40	62	54	43		4.7	9.2	14.3 (D)
5	5 60 TML/S/H/	TML/S/H/D-3-0560	8.27	40	99	90	74	3.5	4.7	9.3	15.0 (L/S/D) 15.4 (H)
10	35	TML/S/H/D-3-1035	9.84	60	63	53	37	5.3	6.3	11.3	17.4 (L/S/D)
10	60	TML/S/H/D-3-1060	5.04	00	100	90	74	0.3	0.3	11.3	18.7 (H)

^{*}Based on suggested minimum runway rail.



TM — TOP RUNNING MOTORIZED END TRUCK — SPECIFICATIONS

	One N	ed Codes L a Notor Per End 3 Phase 60 H	Truck	One N	Speed Code H Notor Per End 3 Phase 60 H	Truck	One N				
End Truck	Rated Current (amps ea.)		Output	Rated Current (amps ea.)			Rated (amp	End Truck Weight			
Product Code	(Hp)	@230V	@460V	(Hp)	@230V	@460V	Output (Hp)	@230V	@460V	(lbs/pr)	
TML/S/H/D-3-0135										325	
TML/S/H/D-3-0160	0.33								422		
TML/S/H/D-3-0335		0.33	1.6	1.0	0.5	2.1	1.3	0.33/0.08	1.6/1.1	0.9/0.8	421
TML/S/H/D-3-0360										538	
TML/S/H/D-3-0535										512	
TML/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	739	
TML/S/H/D-3-1035	1.0	3.3	2.0	2.0	5.8	3.1	0.1/0.25	3.7/2.1	2.3/1.4	883	
TML/S/H/D-3-1060	1.0	3.3	2.0	2.0	5.8		0.1/0.25	3.1/2.1	2.3/1.4	1063	

Speed Code

- Designates 40 ft/min L-
- Designates 80 ft/min S-
- Designates 120 ft/min Н-
- Designates dual speed 80/20 ft/min
- Product Code Derivation example: TML-3-0135
- Top Running
- М-Motorized
- Speed of 40 ft/min
- Series Number
- 01 Max. Capacity 1 Ton 35 - Maximum Span – 35 feet



TG—Single Girder Top Running Geared End Trucks

TG end trucks provide similar benefits to the TM truck, but with geared drive. Along with many important features, end truck kits include: two trucks; hand wheel drive; shaft couplers; appropriate drive shaft bearing supports based on span; rubber bumpers; and bridge beam fastener set. All trucks are fully painted. Bridge fabrication prints are also included. As a member of Crane Manufacturers Association of America (CMAA), Harrington builds TG trucks to meet current industry and regulatory codes.

Benefits to count on:

- Versatile design allows hand chain wheel placement anywhere on drive shaft based on application needs.
- Upgrade easily to TM top running motorized design by simply adding drives and reducers.
- Ideal for precision spotting requirements where motorized operation is not necessary.
- Longer or shorter end truck lengths are available—consult factory.



TP—Single Girder Top Running Push End Trucks

TP end trucks provide similar benefits to the top running motorized TM truck, but with push operation. Along with many important features, end truck kits include: two trucks; rubber bumpers; and bridge beam fastener set. All trucks are fully painted. Bridge fabrication prints are also included. As a member of CMAA, Harrington builds TP trucks to meet current industry and regulatory codes.

- Compared to flanged wheel trucks, TP trucks with guide rollers operate easily, particularly in long span or long lift applications.
- Upgrade easily to top running geared TG or motorized TM model—frames are fully machined and prepared for conversion.
- Longer or shorter end truck lengths are available—consult factory.



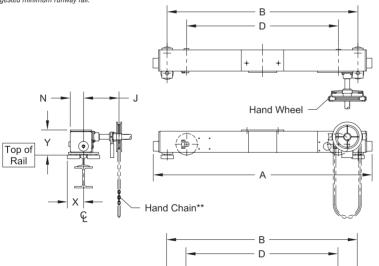
TG — TOP RUNNING GEARED END TRUCK — SPECIFICATIONS AND DIMENSIONS

Cap. (Tons)	Max. Span (ft)	End Truck Product Code	Wheel Dia. (in)	Sug. Min. Runway Rail (ASCE#)	A Overall Length (in)	B Roller Base (in)	D Wheel Base (in)	J Hand Wheel Offset (in)	N Runway Ctr. Line to Outer Edge of ET Tube (in)	X* Width Beyond Span (in)	Y Top of Rail to Top of End Truck (in)	End Truck Weight (lbs/pr)
1	35	TG-3-0135	3.74		61	53	43	9.7	2.1			264
'	50	TG-3-0150	3.74	30	98	90	80	9.7	2.1	4.0	7.1	360
3	35	TG-3-0335		30	62	54	43			4.6	7.1	359
3	50	TG-3-0350	6.10		99	91	80	10.0	3.8			477
5	35	TG-3-0535		40	62	54	43			4.7	9.2	450
5	50	TG-3-0550	8.27	40	99	90	74	10.3	3.5	4.7	9.3	703

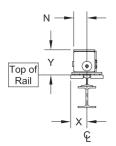
TP — TOP RUNNING PUSH END TRUCK — SPECIFICATIONS AND DIMENSIONS

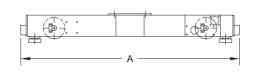
Cap. (Tons)	Max Span (ft)	End Truck Product Code	Wheel Dia. (in)	Sug. Min. Runway Rail (ASCE#)	A Overall Length (in)	B Roller Base (in)	D Wheel Base (in)	N Runway Ctr. Line to Outer Edge of ET Tube (in)	X* Width Beyond Span (in)	Y Top of Rail to Top of End Truck (in)	End Truck Weight (lbs/pr)
1	35	TP-3-0135	3.74		61	53	43	2.1			242
	45	TP-3-0145	3.74	30	98	90	80	2.1	4.6	7.1	338
2	45	TP-3-0245		30	99	91	00		4.0	7.1	454
3	35	TP-3-0335	6.10		62	54	43	3.8			337
5	35	TP-3-0535		40	02	54	43		4.7	9.2	420

^{*}Based on suggested minimum runway rail.



Top Running Geared End Truck





Top Running Manual Push End Truck

^{*}Based on suggested minimum runway rail.

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



UM—Single Girder Underhung Motorized End Trucks

For heavy-duty class "C" single girder crane applications, Harrington underhung motorized end trucks combine superior performance with underhung space savings. Along with a full range of features, end truck kits include: two trucks; two sealed, totally enclosed, non-ventilated (TENV) motors with adjustable D.C. brakes; two helical gear reducers; rubber bumpers; and bridge beam fastener set. All trucks are fully painted. Bridge fabrication prints are also included. As a member of the Crane Manufacturers Association of America (CMAA), Harrington builds UM trucks to meet current industry and regulatory codes.

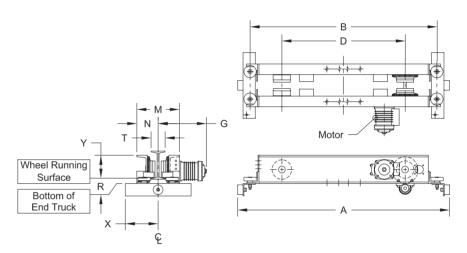
- Frames fabricated from MC channel provide superior strength, rigidity and structural integrity.
- Reduced wheel friction due to heavy-duty side guide rollers results in smooth crane travel—guide rollers are 3 1/2" O.D. with fixed steel axles.
- Dual tread wheels for use on S or W shaped runway beams—each wheel fitted with 2 deep groove ball bearings, meeting L10 bearing life criteria for class C cranes.
- Runway flange widths up to 6" standard, with wider ranges also available (trucks for patented track available).
- Minimize assembly labor with fully machined frames—girder connection, bracing and collector mounting bracket holes are pre-drilled for easy installation.
- Purchase the right component for the job—dedicated models for capacities of 2, 3, and 5 Ton, with maximum span increments of 35' or 50'.
- Sealed TENV drives with guiet, smooth-operating helical gear reducers.
- Gear reducer is designed for easy field conversion between L and S speeds.
- Drives are designed for crane service, with 30 minute rating and feature cooling fins for efficient heat dissipation.
- Thermal motor protection is standard.
- Externally adjustable D.C. brakes allow controlled deceleration—adjustable up to 50% of rated motor torque.
- Drives and brakes are compatible with Electronic Acceleration Control (EAC) and Variable Frequency Drive (VFD).
- Drives are connectable for 230/460V-3-60 (including dual speed models).
 Other voltages available.
- Rail sweeps and drop stops are standard.
- Longer or shorter end truck lengths are available—consult factory.



UM — UNDERHUNG MOTORIZED END TRUCK — DIMENSIONS

Cap. (Tons)	Max. Span (ft)	End Truck Product Code	Wheel Dia. (in)	T Flange Range Std. (in)	A Overall Length (in)	B Roller Base (in)	D Wheel Base (in)	M End Truck Frame Width (in)	N Runway Ctr. Line to Outer Edge of ET (in)	R Wheel Running Surf. To Bottom of Truck (in)	X* Width Beyond Span (in)	Y Wheel Running Surface to Upper Most Part of ET (in)	G Motor (in)
2	35	UML/S/H/D-3-0235	4.33		60	53	39	T+8.1 T+8.2 T+9.8			11.3 -T/2	6.5	T/2+ 11.9 (L/S)
2	50	UML/S/H/D-3-0250	4.33	0.0	82	75	61		1.5 M/2	1.5			
3	35	UML/S/H/D-3-0335	4.92	3 - 6	60	53	35			1.5			12.3 (H) 13.3 (D)
3	50	UML/S/H/D-3-0350	4.92		82	75	57						10.0 (b)
5	35	UML/S/H/D-3-0535	E E1	4-6	60	53	33			1.6		6.8	T/2+
5	50	UML/S/H/D-3-0550	5.51		82	75	55						13.7 (L/S/D) 14.2 (H)

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



Underhung Motorized End Truck

UM - UNDERHUNG MOTORIZED END TRUCK — SPECIFICATIONS

	Sp	eed Codes L an	d S		Speed Code H			Speed Code D			
		Motor Per End 1 3 Phase 60 Hz	Truck	One	Motor Per End 1 3 Phase 60 Hz	Truck	One	Truck			
End Truck	Output	Rated Current (amps ea.)		Output	Rated Current (amps ea.)		Output	Rated Current (amps ea.)		End Truck Weight	
Product Code	(Hp)			(Hp)	@230V	@460V	(Hp)	@230V	@460V	(lbs/pr)	
UML/S/H/D-3-0235			1.0	0.5						522	
UML/S/H/D-3-0250	0.00	1.6			2.1	1.3	0.22/0.00	1.6/1.1 0.9/0.8		659	
UML/S/H/S-3-0335	0.33	1.6			2.1	1.3	0.33/0.08	1.6/1.1	0.9/0.8	543	
UML/S/H/D-3-0350	0.5									680	
UML/S/H/D-3-0535			1.0	1.0		0.0	0.5/0.10	0.04.5	1.0/0.0	638	
UML/S/H/D-3-0550		2.1	1.3	1.0	3.3	2.0	0.5/0.13	2.0/1.5	1.2/0.9	795	

Speed Code

Designates 40 ft/min

S-Designates 80 ft/min

Designates 120 ft/min

Designates dual speed 80/20 ft/min

Product Code Derivation - example: UML-3-0235

Underhung U-

М-Motorized

Speed of 40 ft/min L-

3 -

Series number

02 - Max. Capacity - 2 Ton

35 - Maximum Span - 35 feet



UG—Single Girder Underhung Geared End Trucks

UG end trucks provide similar benefits to the UM truck, but with geared drive. Along with many important features, end truck kits include: two trucks; hand wheel drive; shaft couplers; appropriate drive shaft bearing supports based on span; rubber bumpers; and bridge beam fastener set. All trucks are fully painted. Bridge fabrication prints are also included. As a member of Crane Manufacturers Association of America (CMAA), Harrington builds UG trucks to meet current industry and regulatory codes.

Benefits to count on:

- Versatile design allows hand chain wheel placement anywhere on drive shaft based on application needs.
- Upgrade easily to UM series by simply adding drives and reducers.
- Ideal for precision spotting requirements where motorized operation is not necessary.
- Longer or shorter end truck lengths are available—consult factory.
- Suitable for use on S or W shaped runway beams.



UP—Single Girder Underhung Push End Trucks

UP end trucks provide similar benefits to the UM underhung motorized truck, but for push operation. Along with many important features, end truck kits include: two trucks; rubber bumpers; and bridge beam fastener set. All trucks are fully painted. Bridge fabrication prints are also included. As a member of CMAA, Harrington builds UP trucks to meet current industry and regulatory codes.

- Compared to flanged wheel trucks, UP trucks with guide rollers operate easily, particularly in long span or long lift applications.
- Upgrade easily to underhung geared UG or motorized UM models—frames are fully machined and prepared for conversion.
- Longer or shorter end truck lengths are available—consult factory.
- Suitable for use on S or W shaped runway beams.



UG — UNDERHUNG GEARED END TRUCK — SPECIFICATIONS AND DIMENSIONS

Cap. (Tons)	Max Span (ft)	End Truck Product Code	Wheel Dia. (in)	T Flange Range Std. (in)	A Overall Length (in)	B Roller Base (in)	D Wheel Base (in)	J Hand Wheel Offset (in)	M End Truck Frame Width (in)	N Runway Ctr. Line to Outer Edge of ET (in)	R Wheel Running Surf to Bottom of Truck (in)	X* Width Beyond Span (in)	Y Wheel Running Surface to Upper Most Part of ET (in)	End Truck Weight (lbs/pr)
2	35	UG-3-0235	4.33		60	53	39	T/2+9.0	T+8.1				6.5	503
	45	UG-3-0245	4.33	3-6	82	75	61	1/2+9.0	1+0.1		1.5		0.5	640
3	35	UG-3-0335	4.92	3-6	60	53	35	T/2+8.9	T+8.2	M/2	1.5	11.3-	6.7	529
3	45	UG-3-0345	4.92		82	75	57	1/2+8.9	1+8.2	IVI/2		T/2	0.7	666
5	35	UG-3-0535	5.51	4-6	60	53	33	T/2+9.0	T+9.8		1.6		6.8	611
5	45	UG-3-0545	5.51	4-0	82	75	55	1/2+9.0	1+9.0		1.0		0.0	768

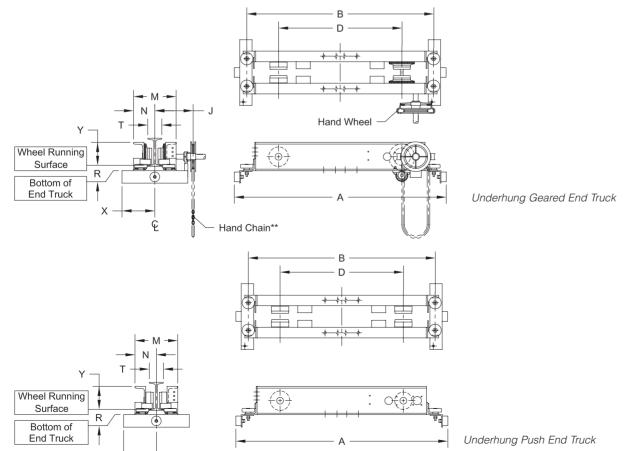
^{*}These formulas for Width Beyond Span do not apply for flanges greater than 6 inches. For flanges greater than 6 inches, consult factory.

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

UP — UNDERHUNG PUSH END TRUCK — SPECIFICATIONS AND DIMENSIONS

Cap. (Tons)	Max. Span (ft)	End Truck Product Code	Wheel Dia. (in)	T Flange Range Std. (in)	A Overall Length (in)	B Roller Base (in)	D Wheel Base (in)	M End Truck Frame Width (in)	N Runway Ctr. Line to Outer Edge of ET (in)	R Wheel Running Surf. to Bottom of Truck (in)	X* Width Beyond Span (in)	Y Wheel Running Surface to Upper Most Part of ET (in)	End Truck Weight (lbs/pr)
2	35	UP-3-0235	4.33		60	53	39	T+8.1					448
2	45	UP-3-0245	4.33	3 – 6	82	75	61	1+0.1	M/2	1.5	11.3 – T/2	6.5	585
3	35	UP-3-0335	4.92		60	53	35	T+8.2	IVI/Z		11.3 – 1/2		472
5	35	UP-3-0535	5.51	4 – 6	60	53	33	T+9.8		1.6		6.4	546

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