

**SHAW-BOX<sup>®</sup>**

## PRICE & SPECIFICATION BOOK

# CRANE COMPONENTS

**TOP & UNDER RUNNING  
SINGLE & DOUBLE GIRDER  
1-20 TON**



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# Important Information

All prices are F.O.B. Wadesboro, North Carolina. Specifications, prices and deliveries are subject to change without notice. Suggested list prices are furnished as trade information only and not as a restriction on resale pricing. Orders subject to final acceptance at our General Offices, Wadesboro, North Carolina.

**F.O.B. Point** – Wadesboro, North Carolina.

**Terms of Payment** – Net 30 days from date of invoice.

Payable in U.S. dollars. Orders subject to CMCO terms of sale.

Prices are firm for standard quoted deliveries.

Prices subject to change without notice.

When approved clearance diagrams are required, lead times given are from receipt of approved diagrams and not receipt of purchase order.

We maintain branch offices and resident field sales representatives in principal cities. They are available to you, upon request, to assist in determining the correct equipment to best handle any job requirement.

All inquiries regarding Customer Service and Order Entry should be directed to the CMCO Customer Service Department. Reference the back cover for phone and fax numbers.

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**⚠ WARNING**

**To Avoid Injury:**

- Do not exceed working load limit, load rating, or capacity.
- Do not use to lift people or loads over people.
- Read and follow all instructions.



This section contains typical single girder top and underhung crane component packages for the most popular span and capacity combinations. Individual components are offered at the end of this catalog.

## KIT NUMBERING SYSTEM

• Pricing and ordering quality Yale® Shaw-Box® Components to build a Single Girder Crane has just been made easier. The kit numbering system is designed to insure that you get the correct combinations of features and components required to build your crane. You also have the ability to add options to the kits or purchase specific individual components.

### Example:

**05 /48TD\*100N**

05	/48	T	D	*	100	N
A	B	C	D	E	F	G

**A** = Maximum Capacity in U.S. tons

**B** = Maximum Span in feet

**C** = Type of Crane

• **T** = Top-Running

• **U** = Under-Running

**D** = Type of Drive

• **D** = Dual, A-4

• **H** = Hand-Geared

**E** = Speed Points of Control. You fill in.

1 or 2 speed, or V for Variable Frequency, not required for Hand-Geared.

**F** = Maximum Bridge Speed in F.P.M.

**G** = Panel enclosure

• **N** = NEMA 4/12

**Specify Power Supply with order.**



**SHAW-BOX**

# Fixed Axle Single Girder Crane Kits

## Top-Running

For CMAA Class "C"

### DUAL (A-4) DRIVE - NEW STYLE TRUCKS for US (short) tons

Kit pricing with NEMA 4/12 panel with disconnect

Max. Capacity (tons)	Max. Span (ft.)	Max. Travel Speed (fpm)	Kit Number	LIST PRICE WITH CONTROL			KIT CONSISTS OF:			
				1-Speed	2-Speed	†Variable Frequency	Shipping Weight	Wheel Diameter	Wheel Base	Drive H.P.
5	36	50	05/36TD*50N	6627	6994	7674	1103	6	4' - 6"	1/2
		75	05/36TD*75N	6627	6994	7674				
		100	05/36TD*100N	6627	6994	7674				
		125	05/36TD*125N	N/A	7692	7715				
		150	05/36TD*150N	N/A	7692	7715				
	48	50	05/48TD*50N	6733	7098	7781	1199		6' - 0"	1/2
		75	05/48TD*75N	6733	7098	7781				
		100	05/48TD*100N	6733	7195	7819				
		125	05/48TD*125N	N/A	7798	7819				
		150	05/48TD*150N	N/A	7893	7862				
	60	50	05/60TD*50N	6880	7246	7928	1297		7' - 6"	1/2
		75	05/60TD*75N	6880	7246	7928				
		100	05/60TD*100N	6922	7340	7970				
		125	05/60TD*125N	N/A	8042	8010				
		150	05/60TD*150N	N/A	8042	8010				
7½	36	50	7.5/36TD*50N	6627	6994	7674	1103	for use with 25-40# Rail	4' - 6"	1/2
		75	7.5/36TD*75N	6669	7089	7715				
		100	7.5/36TD*100N	6711	7182	7756				
		125	7.5/36TD*125N	N/A	9546	8228				
		150	7.5/36TD*150N	N/A	10097	9084				
	48	50	7.5/48TD*50N	6773	7195	7819	1199		6' - 0"	3/4
		75	7.5/48TD*75N	6816	7288	7862				
		100	7.5/48TD*100N	7113	8306	8334				
		125	7.5/48TD*125N	N/A	9653	8334				
		150	7.5/48TD*150N	N/A	10202	9189				
	60	50	7.5/60TD*50N	6922	7340	7970	1297		7' - 6"	3/4
		75	7.5/60TD*75N	6963	7435	8010				
		100	7.5/60TD*100N	7257	8451	8480				
		125	7.5/60TD*125N	N/A	10349	9335				
		150	7.5/60TD*150N	N/A	10349	9335				

\* **Specify:** 1 = Single Speed  
2 = Two Speed  
V = Variable Frequency

**Kit Consists of:** 2 End Trucks with bumpers & rail sweeps  
2 Drives, each with brake motor & pinion

1 Control panel with disconnect  
End connections are optional

**Watch 230v amp draws** - 1-3 hp panels have 30 amp disconnect, 5-10 hp panels have 60 amp.

**Specify Voltage When Ordering** – Components detailed in application guide.

**Note:** 125 & 150 fpm kits are available only in two speed control with soft start or variable frequency control.  
Two speed control at 50 fpm is a 2:1 ratio. All other traverse speeds have a 3:1 ratio.

† List prices are based on 230/460/3/60 power. For 575 volt applications - See Fixed Axle Options Section.



**SHAW-BOX**

# Fixed Axle Single Girder Crane Kits

## Top-Running

For CMAA Class "C"

### DUAL (A-4) DRIVE - NEW STYLE TRUCKS for US (short) tons

Kit pricing with NEMA 4/12 panel with disconnect

Max. Capacity (tons)	Max. Span (ft.)	Max. Travel Speed (fpm)	Kit Number	LIST PRICE WITH CONTROL			KIT CONSISTS OF:					
				1-Speed	2-Speed	†Variable Frequency	Shipping Weight	Wheel Diameter	Wheel Base	Drive H.P.		
10	36	50	10/36TD*50N	7746	8110	8793	1251	8	4' - 6"	1/2		
		75	10/36TD*75N	7786	8206	8834				3/4		
		100	10/36TD*100N	7828	8300	8875	1271			1		
		125	10/36TD*125N	N/A	10664	9345				1 1/2		
		150	10/36TD*150N	N/A	11214	10201				2		
	48	50	10/48TD*50N	7949	8369	8997	1399		for use with 30-40# or 60-80# Rail	6' - 0"	3/4	
		75	10/48TD*75N	7989	8465	9037					1	
		100	10/48TD*100N	8287	9480	9508					1 1/2	
		125	10/48TD*125N	N/A	10828	9508					2	
		150	10/48TD*150N	N/A	11378	10365	1434				2	
	60	50	10/60TD*50N	8111	8530	9160	1507	7' - 6"	3/4			
		75	10/60TD*75N	8153	8628	9201			1			
		100	10/60TD*100N	8447	9645	9671	1527		1 1/2			
		125	10/60TD*125N	N/A	11541	10527			2			
		150	10/60TD*150N	N/A	11541	10527			1547	2		
15	36	50	15/36TD*50N	9529	9947	10575	1457	10	4' - 6"	3/4		
		75	15/36TD*75N	9864	11058	11086				1 1/2		
		100	15/36TD*100N	9864	11058	11086	1477			2		
		125	15/36TD*125N	N/A	12956	11943				3		
		150	15/36TD*150N	N/A	13439	12785				1537	3	
	48	50	15/48TD*50N	9718	10193	10765	1605		for use with 60-80# Rail	6' - 0"	1	
		75	15/48TD*75N	10015	11210	11236					1 1/2	
		100	15/48TD*100N	10404	11763	11345					1625	2
		125	15/48TD*125N	N/A	13590	12936					1665	3
		150	15/48TD*150N	N/A	13590	12936	3					
	60	50	15/60TD*50N	9865	10340	10915	1733	7' - 6"	1			
		75	15/60TD*75N	10162	11355	11384			1 1/2			
		100	15/60TD*100N	10550	11908	12240	1753		2			
		125	15/60TD*125N	N/A	13737	13083			1793	3		
		150	15/60TD*150N	N/A	13737	13083				3		

\* **Specify:** 1 = Single Speed  
2 = Two Speed  
V = Variable Frequency

**Kit Consists of:** 2 End Trucks with bumpers & rail sweeps  
2 Drives, each with brake motor & pinion

1 Control panel with disconnect  
End connections are optional

**Watch 230v amp draws** - 1-3 hp panels have 30 amp disconnect, 5-10 hp panels have 60 amp.

**Specify Voltage When Ordering** – Components detailed in application guide.

**Note:** 125 & 150 fpm kits are available only in two speed control with soft start or variable frequency control.

Two speed control at 50 fpm is a 2:1 ratio. All other traverse speeds have a 3:1 ratio.

† List prices are based on 230/460/3/60 power. For 575 volt applications - See Fixed Axle Options Section.



**SHAW-BOX**

# Fixed Axle Single Girder Crane Kits

## Top-Running

For CMAA Class "C"

### HAND GEARED

Max. Capacity (tonnes)	Max. Span (ft)	Kit Number	List Price*	Shipping Weight (lbs)	Wheel Diameter	Wheel Base
1/2 thru 5	12	05/12TR	4053	853	6 for use with 25-40# Rail	4' - 6"
	22	05/22TR	4154	856		
	28	05/28TR	4358	862		
	36	05/36TR	4461	865		6' - 0"
	42	05/42TR	4769	967		
	48	05/48/TR	4870	970		
	52	05/52TR	5019	1158		
60	05/60TR	5121	1161	7' - 6"		
6 thru 7½	12	7.5/12TR	4053	943	8 for use with 25-40# or 60-80# Rail	4' - 6"
	22	7.5/22TR	4154	946		
	28	7.5/28TR	4358	952		
	36	7.5/36TR	4461	955		6' - 0"
	42	7.5/42TR	4769	1057		
	48	7.5/48TR	4870	1060		
	52	7.5/52TR	5019	1058		
60	7.5/60TR	5121	1061	7' - 6"		
8 thru 10	12	10/12TR	5169	1091	10 for use with 60-80# Rail	4' - 6"
	22	10/22TR	5272	1094		
	28	10/28TR	5477	1100		
	36	10/36TR	5577	1103		6' - 0"
	42	10/42TR	5944	1237		
	48	10/48/TR	6048	1240		
	52	10/52TR	6210	1368		
60	10/60TR	6313	1371	7' - 6"		
11 thru 15	12	15/12TR	6911	1297	10 for use with 60-80# Rail	4' - 6"
	22	15/22TR	7013	1300		
	28	15/28TR	7217	1306		
	36	15/36TR	7321	1309		6' - 0"
	42	15/42TR	7672	1443		
	48	15/48/TR	7775	1446		
	52	15/52TR	7923	1574		
60	15/60TR	8024	1577	7' - 6"		

**\*Kit Consists of:** (1) Pair of End Trucks (1) 8282 Hand Chain with Open Link (36 ft.)  
 (2) 229984-1 Hand Geared Drive Adapters Cross Shaft Bearing Assemblies & Cross Shaft Coupling  
 (1) 913115 Hand Chain & Wheel Guide Assembly (see chart below for quantities)

Max Span (ft)	Cross Shaft** Bearing Assy		Cross Shaft** Coupling	
	Qty.	Catalog No.	Qty.	Catalog No.
12	1	904625	2	8280
22	2			
28	3			
36	4			
42	5			
48	6			
52	7			
60	8		4	

**\*\*Note:** List price based on using a 1-3/16" diameter cross shaft (by others).



**SHAW-BOX**

# Fixed Axle Single Girder Crane Kits Under-Running

For CMAA Class "C"

## DUAL (A-4) DRIVE - NEW STYLE TRUCKS for US (short) tons

Kit pricing with NEMA 4/12 panel with disconnect

Max. Capacity (tons)	Max. Span (ft)	Max. Travel Speed (fpm)	Beam Flange Range**	Kit Number	LIST PRICE WITH CONTROL			KIT CONSISTS OF:					
					1-Speed	2-Speed	†Variable Frequency	Shipping Weight	Wheel Diameter	Wheel Base	Drive H.P.		
5	36	65	4-5/8" - 6" 1-1/16" max flange thickness*	05/36UD*65N	8437	8816	9524	1235	6-1/2	4' - 6"	1/2		
		95		05/36UD*95N	8437	8816	9524				1245	3/4	
		115		05/36UD*115N	N/A	9543	9568	1345				6' - 0"	1/2
		135		05/36UD*135N	N/A	9543	9568				1365		3/4
	48	65		05/48UD*65N	8858	9239	9947	1475		7' - 6"			1/2
		95		05/48UD*95N	8858	9239	9947				1505		3/4
		115		05/48UD*115N	N/A	9966	9991	1505				1	
		135		05/48UD*135N	N/A	9966	9991						
	60	65		05/60UD*65N	9134	9516	10223	1615		8	4' - 6"	3/4	
		95		05/60UD*95N	9176	9613	10266					1635	1
		115		05/60UD*115N	N/A	10341	10310	1761					1 1/2
		135		05/60UD*135N	N/A	10341	10310					1781	3/4
10	36	65	5-1/2" - 6" 1-1/4" max flange thickness*	10/36UD*65N	10238	10675	11327	1615	8	6' - 0"	1		
		95		10/36UD*95N	10282	10774	11369				1635	1 1/2	
		115		10/36UD*115N	N/A	13230	11860	1761				6' - 0"	3/4
		135		10/36UD*135N	N/A	13230	11860				1781		1
	48	65		10/48UD*65N	10696	11132	11786	1903		7' - 6"			3/4
		95		10/48UD*95N	10738	11233	11828				1923		
		115		10/48UD*115N	N/A	13689	12317	1983				7' - 6"	
		135		10/48UD*135N	N/A	13689	12317						
60	65	10/60UD*65N	10899	11335	11988	1983	7' - 6"	1 1/2	3/4				
	95	10/60UD*95N	10941	11436	12032				1983		1		
	115	10/60UD*115N	N/A	13890	12519	1983					1 1/2		
	135	10/60UD*135N	N/A	13890	12519								

\* **Specify:** 1 = Single Speed  
2 = Two Speed  
V = Variable Frequency

**Kit Consists of:** 2 End Trucks  
2 Drives, each with brake, motor & pinion  
1 Control Panel with disconnect  
**Bumpers are optional - For thicker runway flange applications - contact factory**

\*\*Add for  
**Wider Beams -** For 6-1/8" - 7 1/2" **\$60** Add to the kit price  
 For 7-5/8" - 9" **\$182**  
**For 6 1/2" & 8" Trucks** For 9-1/8" - 10 1/2" **\$300**  
 For 10-5/8" - 12" **\$420**  
**For 3/4" Patented Track** (6-1/2" wheel only) **\$735**

**Specify Voltage When Ordering** – Components detailed in application guide.

**Note:** 115 fpm and 135 fpm kits are available only in two speed control with soft-start or variable frequency control.

**Watch 230v amp draws** - 1-3 hp panels have 30 amp disconnect, 5-10 hp panels have 60 amp.

† List prices are based on 230/460/3/60 power. For 575 volt applications - See Fixed Axle Options Section.



**SHAW-BOX**

# Fixed Axle Single Girder Crane Kits Under-Running

For CMAA Class "C"

## HAND GEARED

Max. Capacity (tonnes)	Max. Span (ft)	Runway Beam Range		Kit Number	List Price***	Shipping Weight (lbs)	Wheel Diameter	Wheel Base
		Width (in)	Min. Depth (in)					
1/2 thru 5	12	4-5/8 thru 6 1-1/16" max flange thickness*	10**	05/12UH/*	5760	1175	6-1/2"	4' - 6"
	22			05/22UH/*	5867	1178		
	28			05/28UH/*	6078	1184		
	36			05/36UH/*	6185	1187		
	42			05/42UH/*	6818	1313		6' - 0"
	48			05/48UH/*	6925	1316		
	52			05/52UH/*	7202	1436		
	60			05/60UH/*	7308	1439		
6 thru 10	12	5-1/2" - 6" 1-1/4" max flange thickness*	14**	10/12UH/*	7519	1565	8"	4' - 6"
	22			10/22UH/*	7627	1568		
	28			10/28UH/*	7838	1574		
	36			10/36UH/*	7943	1577		
	42			10/42UH/*	8615	1729		6' - 0"
	48			10/48UH/*	8720	1732		
	52			10/52UH/*	8921	1874		
	60			10/60UH/*	9029	1877		

	Code No.	Flange Width	Add \$	***Kit Consists of:
*Identify Flange Width and Adder	1	= 4-5/8 - 6	\$0	(1) Pair of End Trucks
	2	= 6-1/8 - 7-1/2	49	(2) 229984-1 Hand Geared Drive Adapters
	3	= 7-5/8 - 9	176	(1) 913115 Hand Chain & Wheel Guide Assembly
	4	= 9-1/8 - 10-1/2	247	(1) 8282 Hand Chain with Open Link (36 ft.)
	5	= 10-5/8 - 12	278	Cross Shaft Bearing Assemblies & Cross Shaft Coupling
	6	= Patented track ( 6 1/2" wheel only)	735	(see chart below for quantities)

For thicker runway flange applications - contact factory

\*\*Please see page 12 in the Crane Components Specification Catalog for calculating more precise minimum beam depths.

Max Span (ft)	Cross Shaft** Bearing Assy		Cross Shaft** Coupling	
	Qty.	Catalog No.	Qty.	Catalog No.
12	1	904625	2	8280
22	2			
28	3			
36	4			
42	5			
48	6			
52	7			
60	8		4	

\*Note: List price based on using a 1-3/16" diameter cross shaft (by others).



This section contains double girder component packages for various span and capacity combinations and individual component pricing.

Individual bridge components are found near the end of this catalog.

## **KIT NUMBERING SYSTEM**

• Pricing and ordering quality Yale® Shaw-Box® Components to build a Double Girder Top Running Crane has just been made easier. The value package kit numbering system is designed to insure that you get the correct combinations of features and components required to build your crane. You also have the ability to add options to the kits or purchase specific individual components.

### **Example:**

8	F	7.5	/.75	-	1	-	*
A	B	C	D		E		F

**A** = Wheel diameter in inches

**B** = Type of wheel

- **F** = Fixed Axle
- **R** = Rotating Axle

**C** = Wheelbase in feet

**D** = H.P. of each drive motor

**E** = Speed points of control (you fill in). 1-speed, 2-speed, V-Variable Frequency

**F** = Traverse Speed

**Specify Power Supply with order.**



## Based on Individual (A-4) Drives

**Single Speed Packages (Do not use for speeds over 100 F.P.M.)**

Kit Number	Wheel Diameter (in)	Wheel Base	Motor H.P.	List Prices		Weight (lbs)	Wheel Base Adder	
				Package**	Control Deduct		9'	10' - 6"
8F7.5/.75-1-*	8	7' - 6"	3/4	8111	1569	1387	625	714
8F7.5/1.0-1-*			1	8151	1569	1407	625	714
8F7.5/1.5-1-*			1-1/2	8447	1569	1407	625	714
8F7.5/2.0-1-*			2	8841	1852	1427	625	714
8F7.5/3.0-1-*			3	9231	2139	1467	625	714
10F7.5/1.0-1-*	10	7' - 6"	1	9864	1569	1613	650	735
10F7.5/1.5-1-*			1-1/2	10160	1569	1613	650	735
10F7.5/2.0-1-*			2	10541	1852	1633	650	735
10F7.5/3.0-1-*			3	10941	2139	1673	650	735

**Two Speed Packages (Use with E.A.C. for speeds over 100 F.P.M.)**

Kit Number	Wheel Diameter (in)	Wheel Base	Motor H.P.	LIST PRICES		Weight (lbs)	Wheel Base Adder	
				Package**	Control Deduct		9'	10' - 6'
8F7.5/.75-2-*	8	7' - 6"	3/4	8530	1626	1407	625	714
8F7.5/1.0-2-*			1	8628	1626	1427	625	714
8F7.5/1.5-2-*			1-1/2	9646	1626	1427	625	714
8F7.5/2.0-2-*			2	10200	1957	1447	625	714
8F7.5/3.0-2-*			3	10758	2293	1487	625	714
10F7.5/1.0-2-*	10	7' - 6"	1	9920	1626	1633	650	735
10F7.5/1.5-2-*			1-1/2	10218	1626	1633	650	735
10F7.5/2.0-2-*			2	10708	1957	1653	650	735
10F7.5/3.0-2-*			3	11099	2293	1693	650	735

**Kit Consists of:** 2 End Trucks with Bumpers

**SPECIFY VOLTAGE WHEN ORDERING**

1 NEMA 4/12 Control Panel with disconnect

**Drives, each with:** Motor, AC Disc Brake, Reducer, Drive Pinion

\* Specify: Traverse Speed Rail Size

**Watch 230v amp draws** - 1-3 hp panels have 30 amp disconnect, 5-10 hp panels have 60 amp.

**Note:** Drives are shipped assembled but not mounted to the trucks. Add 5% to weights for approximate shipping weights.

\*\*See pages 11-16 for hp requirements

\*\*\*When selecting bridge motor hp shown on this page, motors are sized based on 66% of the total calculated hp required for contactor or variable frequency drive (VFD) control. However, if the reverse plugging feature of the VFD is to be used, motors should be sized to 75% of the total calculated hp required to get full reverse plugging performance.



## Based on Individual (A-4) Drives (cont.) †

### Variable Frequency Drive Packages (2 Step Infinitely Variable based on 460 Volts)

Kit Number	Wheel Diameter (in)	Wheel Base	Motor*** H.P.	LIST PRICES		Weight (lbs)	Wheel Base Adder	
				Package** Price	Control Deduct		9'	10' - 6'
8F7.5/1.75-V*	8	7' - 6"	3/4	9181	2643	1367	625	714
8F7.5/1.0-V*			1	9223	2643	1387	625	714
8F7.5/1.5-V*			1-1/2	9634	2754	1387	625	714
8F7.5/2.0-V*			2	10484	3495	1407	625	714
8F7.5/3.0-V*			3	12216	5122	1407	625	714
10F7.5/1.0-V*	10	7' - 6"	1	10937	2643	1593	650	735
10F7.5/1.5-V*			1-1/2	11346	2754	1593	650	735
10F7.5/2.0-V*			2	12195	3495	1613	650	735
10F7.5/3.0-V*			3	13925	5122	1613	650	735

**Kit Consists of:** 2 End Trucks with Bumpers  
 1 NEMA 4/12 Control Panel with disconnect  
**Drives, each with:** Motor, AC Disc Brake, Reducer, Drive Pinion

**SPECIFY VOLTAGE WHEN ORDERING**

\* Specify: Traverse Speed Rail Size

**Watch 230v amp draws** - 1-3 hp panels have 30 amp disconnect, 5-10 hp panels have 60 amp.

**Note:** Drives are shipped assembled but not mounted to the trucks. Add 5% to weights for approximate shipping weights.

\*\*See pages 11-16 for hp requirements

\*\*\*When selecting bridge motor hp shown on this page, motors are sized based on 66% of the total calculated hp required for contactor or variable frequency drive (VFD) control. However, if the reverse plugging feature of the VFD is to be used, motors should be sized to 75% of the total calculated hp required to get full reverse plugging performance.

†For 575 volt applications - See Fixed Axle Options Section.



This section contains individual double girder crane components for fixed and rotating axle end trucks. Price for the following components are found in this section:

End Trucks

Drive Reducers

Motors and Brake

Control Panels

## New Fixed Axle, Top Running Tube-Frame End Truck

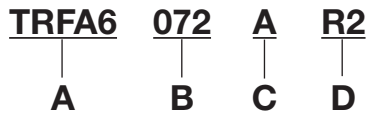
### Catalog Numbering System

The following end truck catalog numbering system makes ordering a pair of end trucks for a specific application easier and insures that you will receive exactly what you ordered.

Example - Typical Single Girder Truck  
Catalog Number as Cataloged - Less Options

**Example:**

**TRFA6072AR2**



**A** Truck Type & Wheel Diameter

- TRFA6** Top-running, fixed axle - 6" diameter wheel
- TRFA8** Top-running, fixed axle - 8" diameter wheel
- TRFA10** Top-running, fixed axle - 10" diameter wheel

**B** Wheelbase - Inches

**C** Runway Rail Size

- A** 30# - 40# ASCE
- B** 60# - 105# ASCE

**D** Bumper Type\*

\*To insure proper bumper selection check pages 51-54 in the Yale® Shaw-Box® Crane Components Specification Book #CS/L-1002-0505.



**Top-Running**

**Single Girder Fixed Axle End Trucks** - 1 pair with conical bumpers and welded rail sweeps

Catalog Number	Max. Cap. (tons)	Wheel Base	A.S.C.E. Rail	List Price	Wt. (lbs)
TRFA6054AR2	7.5*	4'-6"	25 - 40# (6" wheel)	2501	744
TRFA6072AR2		6'-0"		2606	840
TRFA6090AR2		7'-6"		2753	938
TRFA8054AR3	10	4'-6"	30 - 40# (8" wheel)	3618	892
TRFA8072AR3		6'-0"		3782	1020
TRFA8090AR3		7'-6"		3946	1148
TRFA8054BR3		4'-6"	60 - 80# (10" wheel)	3618	892
TRFA8072BR3		6'-0"		3782	1020
TRFA8090BR3		7'-6"		3946	1148
TRFA10054BR3	15	4'-6"		5360	1098
TRFA10072BR3		6'-0"		5510	1226
TRFA10090BR3		7'-6"		5657	1354

**Double Girder Fixed Axle End Trucks**

1 pair with Conical Bumpers and Rail Sweeps

Catalog Number	Wheel Dia.	Wheel Base	A.S.C.E. Rail	List Price	Wt. (lbs)
TRFA8090AR3	8"	7'-6"	30 - 40#	3946	1148
TRFA8108AR3		9'-0"		4570	1276
TRFA8126AR3		10'-6"		4438	1404
TRFA8090BR3		7'-6"	60 - 80#	3946	1148
TRFA8108BR3		9'-0"		4570	1276
TRFA8126BR3		10'-6"		4438	1404
TRFA10090AR4	10"	7'-6"	30 - 40#	5657	1354
TRFA10108AR4		9'-0"		6038	1482
TRFA10126AR4		10'-6"		6123	1610
TRFA10090BR4		7'-6"	60 - 80#	5657	1354
TRFA10108BR4		9'-0"		6038	1482
TRFA10126BR4		10'-6"		6123	1610

**Drives** - For Top-Running or Under-Running Trucks

**1-Speed** - For use with 1-speed contactor or variable frequency control. 1 pair with brake, motor, reducer & pinion - For either 230/460 or 575 volts - SPECIFY speed and voltage with order.

Catalog Number	H.P.	List Price	Wt. (lbs)
913460	1/2	2556	164
913462	3/4	2597	164
913464	1	2638	184
913466	1-1/2	2934	184
913468	2	3042	204
913469	3	3147	204

**Note:** Do not use 1-speed drives on traverse speeds over 100 fpm.

**Drives** - For Top-Running or Under-Running Trucks

**2-Speed** - For use with 2-speed contactor controls 1 pair with brake, motor, reducer & pinion - For either 230/460 or 575 volts - SPECIFY speed and voltage with order.

Catalog Number	H.P.	List Price	Wt. (lbs)
913470	1/2	2868	174
913471	3/4	2961	174
913472	1	3059	194
913473	1-1/2	4075	194
913474	2	4296	214
913475	3	4517	214

**Note:** Two speed drives over 100 fpm must have solid state soft starts included with the controls.

**"Whales Tail" End Connection** (For Top-Running only)- Following kit consists of two end connections for a single girder crane. Can be used for either a welded or bolted connection. To 60 foot maximum span.

\*2 kits required for double girder applications.

444697-10

When purchasing with components.....**\$762**

When purchasing end connections only .....**834**

**Hand Geared Options**

**Hand Geared Adapter** - The adapter contains a drive pinion mounted on a bearing supported stub shaft. The adapter bolts into the same threaded bolt hole arrangement that the gear reducer bolts into. The live shaft (by others) couples to the stub shaft.

229984-1 1 pair of adapters .....**\$746**

Following are component options for the trucks that can be used to fabricate hand geared bridge cranes.

Catalog Number	List Price	Wt. (lbs)
<b>Cross Shaft Bearing</b>		
904625 (1-3/16 Dia.)	101	3
912112 (1-5/16 Dia.)	155	5
<b>Cross Shaft Coupling</b>		
8280 (1-3/16 Dia.)	100	3
912122 (1-5/16 Dia.)		6
<b>Hand Chain Wheel and Guide</b>		
913115 (1-3/16 Bore)	298	10
332189-3 (1-3/16 Bore)		
912116 (1-5/16 Bore)		
<b>Hand Chain with Link</b>		
8282 (36'-0" LG)	204	20
<b>Additional Hand Chain</b>		
Per Linear Foot	4.00	—



## Under-Running

**End Trucks** - 1 pair with rail sweeps, bumpers optional

Catalog Number	Max. Cap. (tons)	Wheel Dia.	Wheel Base	Flange Width	List Price	Wt. (lbs)		
446350-01	5	6-1/2"	4'-6"	4-5/8-6"	4149	976		
446350-02				6-1/8-7-1/2"	4200	994		
446350-03				7-5/8-9"	4323	1010		
446350-04				9-1/8-10-1/2"	4390	1028		
446350-05				10-5/8-12"	4424	1044		
446350-43			3-1/4" Patented Track	4884	950			
446350-06			6'-0"	4-5/8-6"	4571	1096		
446350-07				6-1/8-7-1/2"	4628	1114		
446350-08				7-5/8-9"	4755	1130		
446350-09				9-1/8-10-1/2"	4837	1148		
446350-10				10-5/8-12"	4867	1164		
446350-44			3-1/4" Patented Track	5303	1050			
446350-11			7'-6"	4-5/8-6"	4848	1216		
446350-12				6-1/8-7-1/2"	4901	1234		
446350-13				7-5/8-9"	5041	1250		
446350-14				9-1/8-10-1/2"	5117	1268		
446350-15				10-5/8-12"	5154	1284		
446350-45			3-1/4" Patented Track	5578	1175			
446353-01			10	8"	4'-6"	5-1/2-6"	5908	1366
446353-02						6-1/8-7-1/2"	5963	1384
446353-03	7-5/8-9"	6109				1404		
446353-04	9-1/8-10-1/2"	6193				1422		
446353-05	10-5/8-12"	6231				1440		
446353-06	6'-0"	5-1/2-6"			6367	1512		
446353-07		6-1/8-7-1/2"			6427	1530		
446353-08		7-5/8-9"			6587	1550		
446353-09		9-1/8-10-1/2"			6670	1560		
446353-10		10-5/8-12"			6711	1586		
446353-11	7'-6"	5-1/2-6"			6568	1654		
446353-12		6-1/8-7-1/2"			6629	1672		
446353-13		7-5/8-9"			6787	1692		
446353-14		9-1/8-10-1/2"			6869	1710		
446353-15		10-5/8-12"			6910	1728		

**4' - 0" Wheel base Under-Running Trucks**

Add per pair of 4-6" end trucks.....**655**

**Center End Truck** -Under-Running Trucks Only

Price for one Center Truck **Use 60% of List Price for std. End Truck**

**Underhung End Truck Spacer Kits\***

End truck spacer kits permit modification of the end truck to run on a different runway beam flange width range. End trucks can be modified to run on larger or smaller flange width ranges by removing the spacers shipped with the truck and replacing with different spacers.

Prices are **per truck, order two kits for one pair of trucks.** The spacer kits consist of two steel spacer blocks, they do not include pinion shafts or pinions.

Catalog Number	Runway Beam Flange Width	List Price	Wt. (lbs)
232556-01	4-5/8" to 6"	231	60
232556-02	6-1/8" to 7-1/2"	267	70
232556-03*	7-5/8" to 9"	323	80
232556-04*	9-1/8" to 10-1/2"	374	90
232556-05*	10-5/8" to 12"	386	100

**\*Underhung End Truck Pinion Kits**

In addition to different spacer blocks, you must order longer or shorter pinion shafts. Following are pinion kits to use depending on if you are going up or down in flange width range.

For trucks with a flange width range of 4-5/8" - 7-1/2" pinion kit No. 232557-01 is required, 13-13/16" pinion, **one kit per truck.**

Price for one Pinion kit No. 232557-01 ..... **295**

For trucks with a flange width range of 7-5/8" and up, pinion kit No. 232557-02 is required, 17-5/8" pinion, **one kit per truck.**

Price for one Pinion kit No. 232557-02 ..... **326**

**Spark Resistant Features** - See Options Pages

**Underhung Bridge Bumpers** - (shipped loose)

Prices are **per truck, order two kits for one pair of trucks**

Each kit includes four (4) bumpers

232553-01 6 1/2" Wheel Dia. Truck .....**\$63**

232553-02 8" Wheel Dia. Truck .....**81**



**Fixed Axle**

**NEMA 4 Brake**  
(For outdoor applications) ..... **190**

**NEMA 4X Enclosure Adders**  
Fiberglass ..... **610**  
Stainless Steel ..... **1329**

**Strip Heater Package**  
(Non Hazardous areas only) ..... **754**  
Includes: Heaters in both motors  
& control panel with transformer

**Warning Horn**  
(must specify method of activation) ..... **381**

**Warning Light**  
(must specify method of activation) ..... **635**

**Travel Limit Switch**  
Single Switch, Bi-Directional (Trip Dog by others)  
NEMA 4/12 ..... **759**  
Intrinsically safe (Hazardous area) ..... **1161**

**Disconnect Panel Adders:**  
60 Amp Panel ..... **228**  
100 Amp Panel ..... **297**

**Thermal Overload Relays:**  
Single Speed ..... **204**  
2-Speed ..... **352**

**Adjustable EAC (115 Volt Control)**  
208/230 Volt, 1-2 HP ..... **605**  
208/230 Volt, 3-6 HP ..... **1345**  
460 Volt, 1-4 HP ..... **605**  
460 Volt, 5-10 HP ..... **1345**

**Variable Frequency Drive - 575/3/60 Volt**  
**Price Adder to standard 460 VFD Panels**  
3/4 Maximum Motor HP ..... **4276**  
1Maximum Motor HP ..... **4276**  
1½Maximum Motor HP ..... **4276**  
2Maximum Motor HP ..... **4276**  
3Maximum Motor HP ..... **4077**

**Explosion Proof/Spark Resistant Options**

**Aluminum Hand Chain** ..... **11.00**

**Spark Resistant Bronze Wheels**

**Top-Running**  
6" Bronze Wheels ..... **4634**  
with Rail Sweeps ..... **5365**  
8" Bronze Wheels ..... **10243**  
with Rail Sweeps ..... **11063**  
10" Bronze Wheels ..... **15055**  
with Rail Sweeps ..... **16295**

**Spark Resistant Wheels - Continued**

**Under-Running**  
6½" Bronze Wheels ..... **4764**  
with Rail Sweeps ..... **5372**  
8" Bronze Wheels ..... **6535**  
with Rail Sweeps ..... **7651**

**\*Explosion Proof Motor/Control\*\* - Add to standard Fixed Axle Kits in this catalog**

Division 1			Division 2				
Class 1, Group C & D Class 2, Group F & G		Drive HP	Class 1, Group C & D		Drive HP	Class 2, Group F & G	
1-Speed	2-Speed		1-Speed	2-Speed		1-Speed	2-Speed
10841	12801	1/2	4490	5822	1/2	1319	1972
10841	12801	3/4	4490	5822	3/4	1319	1972
10841	12801	1	4490	5822	1	1319	1972
12198	12814	1-1/2	5782	5838	1-1/2	1319	1972
12198	12814	2	5782	5838	2	1319	1972
12198	12814	3	5782	5838	3	1319	1972

\* Includes Intrinsically Safe Control Circuit, except Class 2 Group F & G, Division 2

\*\*For VFD Controls - Contact Factory



**Variable Frequency Control †**

Kit Number	Wheel Base	Max. Span	Traverse Speed/List Price			Weight (lbs)	HP Each Motor	Max. Durability Wheel Load		
			100	120	150			ASCE 20#	ASCE 40#	ASCE 60 & 70# ARA-B 100#
9R4.5/1.0-V-*	4' - 6"	31' - 6"	12939	12939	13033	1264	1	11300	16800	23600
9R4.5/1.5-V-*			13173	13164	13259	1297	1½			
9R4.5/2.0-V-*			13530	13519	13614	1311	2			
9R6.0/1.0-V-*	6' - 0"	42' - 0"	13185	13190	13314	1411	1			
9R6.0/1.5-V-*			13409	13416	13538	1444	1½			
9R6.0/2.0-V-*			13763	13769	13894	1458	2			
9R7.5/1.0-V-*	7' - 6"	52' - 6"	13438	13483	13590	1558	1			
9R7.5/1.5-V-*			13663	13709	13815	1591	1½			
9R7.5/2.0-V-*			14020	14065	14172	1605	2			
9R8.0/1.0-V-*	8' - 0"	56' - 0"	13519	13589	13685	1607	1			
9R8.0/1.5-V-*			13742	13813	13910	1640	1½			
9R8.0/2.0-V-*			14099	14167	14261	1654	2			
9R9.0/1.0-V-*	9' - 0"	63' - 0"	13682	13799	13869	1705	1			
9R9.0/1.5-V-*			13902	14024	14093	1738	1½			
9R9.0/2.0-V-*			14258	14378	14447	1752	2			
9R10.0/1.0-V-*	10' - 0"	70' - 0"	13844	14009	14052	1803	1			
9R10.0/1.5-V-*			14069	14232	14277	1836	1½			
9R10.0/2.0-V-*			14423	14590	14634	1850	2			

\* Specify: Traverse Speed  
Rail Size  
Voltage

Kit Consists of: 2 trucks with bumpers - flat tread wheels are standard  
1 NEMA 4/12 panel with disconnect  
2 Drives, each with Motor, AC disc brake and hollow shaft reducer

**Note: Use Yale® Shaw-Box® Crane Component Specifications catalog to calculate the correct bumper size for your application or call factory.**

\*\*When selecting bridge motor hp shown on this page, motors are sized based on 66% of the total calculated hp required for contactor or variable frequency drive (VFD) control. However, if the reverse plugging feature of the VFD is to be used, motors should be sized to 75% of the total calculated hp required to get full reverse plugging performance.

†For 575 volt applications - See Rotating Axle Options Section.

**Watch 230v amp draws** - 1-3 hp panels have 30 amp disconnect, 5-10 hp panels have 60 amp.

**Options**

**End Trucks**

Wheel bases in 6" increments are also available from a minimum of 4' - 6" to a maximum of 10' - 0".

Add for wheel bases in-between cataloged wheel bases in 6" increments add **\$85** per 6"

Add for wheel bases in-between cataloged wheel bases in other than 6" increments add **\$365**

For pricing on wheel bases other than those listed contact factory.

**Note:** Drives shipped assembled but not mounted to trucks.



**Variable Frequency Control †**

Kit Number	Wheel Base	Max. Span	Traverse Speed/List Price			Weight (lbs)	HP Each Motor	Max. Durability Wheel Load		
			100 fpm	150 fpm	200 fpm			ASCE 40#	ASCE 60# & 70# ARA-B 100#	ASCE 80# & 85# ARA-A 100# BETH 104# USS 105#
12R9.0/1.5-V-*	9' - 0"	63' - 0"	18329	N/A	N/A	2682	1½	22400	31400	33700
12R9.0/2.0-V-*			18582	18961	18961	2625	2			
12R9.0/3.0-V-*			20358	20860	20860	2828	3			
12R9.0/5.0-V-*			N/A	21673	21673	2982	5			
12R10.0/1.5-V-*	10' - 0"	70' - 0"	18498	N/A	N/A	2804	1½			
12R10.0/2.0-V-*			18754	19129	19129	2750	2			
12R10.0/3.0-V-*			20852	21026	21026	2950	3			
12R10.0/5.0-V-*			N/A	21844	21844	3104	5			
12R11.0/1.5-V-*	11' - 0"	77' - 0"	18665	N/A	N/A	2926	1½			
12R11.0/2.0-V-*			18919	19298	19298	2872	2			
12R11.0/3.0-V-*			21210	21370	21370	3072	3			
12R11.0/5.0-V-*			N/A	22005	22005	3226	5			
12R12.0/1.5-V-*	12' - 0"	84' - 0"	18831	N/A	N/A	3048	1½			
12R12.0/2.0-V-*			19087	19466	19466	2994	2			
12R12.0/3.0-V-*			21378	21537	21537	3194	3			
12R12.0/5.0-V-*			N/A	22177	22177	3348	5			
12R13.0/1.5-V-*	13' - 0"	91' - 0"	18996	N/A	N/A	3170	1½			
12R13.0/2.0-V-*			19255	19635	19635	3116	2			
12R13.0/3.0-V-*			21592	21753	21753	3316	3			
12R13.0/5.0-V-*			N/A	22336	22336	3470	5			
12R14.0/1.5-V-*	14' - 0"	98' - 0"	19164	N/A	N/A	3292	1½			
12R14.0/2.0-V-*			19426	19803	19803	3238	2			
12R14.0/3.0-V-*			21802	21964	21964	3438	3			
12R14.0/5.0-V-*			N/A	22516	22516	3592	5			

\* **Specify: Traverse Speed**  
**Rail Size**  
**Voltage**

**Kit Consists of:** 2 trucks with bumpers - flat tread wheels are standard  
1 NEMA 4/12 panel with disconnect  
2 Drives, each with Motor, AC disc brake and hollow shaft reducer

**Note: Use Yale® Shaw-Box® Crane Component Specifications catalog to calculate the correct bumper size for your application or call factory.**

\*\*When selecting bridge motor hp shown on this page, motors are sized based on 66% of the total calculated hp required for contactor or variable frequency drive (VFD) control. However, if the reverse plugging feature of the VFD is to be used, motors should be sized to 75% of the total calculated hp required to get full reverse plugging performance.

†For 575 volt applications - See Rotating Axle Options Section.

**Watch 230v amp draws** - 1-3 hp panels have 30 amp disconnect, 5-10 hp panels have 60 amp.

**Options**

**End Trucks**

Wheel bases in 6" increments are also available from a minimum of 9' - 0" to a maximum of 14' - 0".

Add for wheel bases in-between cataloged wheel bases in 6" increments add **\$88** per 6"

Add for wheel bases in-between cataloged wheel bases in other than 6" increments add **\$365**

For pricing on wheel bases other than those listed contact factory.

**Note:** Drives shipped assembled but not mounted to trucks.



**Variable Frequency Control †**

Kit Number	Wheel Base	Max. Span	Traverse Speed/List Price				Weight (lbs)	HP Each Motor	Max. Durability Wheel Load		
			100	150	200	250			ASCE 40#	ASCE 60# & 70# ARA-B 100#	ASCE 80# & 85# ARA-A 100# BETH 104# USS 105#
15R9.0/3.0-V-*	9' - 0"	63' - 0"	26394	N/A	N/A	N/A	4024	3	28000	39300	42100
15R9.0/5.0-V-*			27168	27047	27233	N/A	4270	5			
15R9.0/7.5-V-*			N/A	32636	32829	32713	4186	7½			
15R10.0/3.0-V-*	10' - 0"	70' - 0"	26640	N/A	N/A	N/A	4173	3			
15R10.0/5.0-V-*			27412	27290	27480	N/A	4419	5			
15R10.0/7.5-V-*			N/A	32887	33084	32972	4335	7½			
15R11.0/3.0-V-*	11' - 0"	77' - 0"	26883	N/A	N/A	N/A	4322	3			
15R11.0/5.0-V-*			27653	27534	27729	N/A	4568	5			
15R11.0/7.5-V-*			N/A	33138	33336	33231	4484	7½			
15R12.0/3.0-V-*	12' - 0"	84' - 0"	27126	N/A	N/A	N/A	4471	3			
15R12.0/5.0-V-*			27894	27776	27974	N/A	4717	5			
15R12.0/7.5-V-*			N/A	33387	33591	33490	4633	7½			
15R13.0/3.0-V-*	13' - 0"	91' - 0"	27366	N/A	N/A	N/A	4620	3			
15R13.0/5.0-V-*			28140	28018	28266	N/A	4866	5			
15R13.0/7.5-V-*			N/A	33637	33890	33749	4782	7½			
15R14.0/3.0-V-*	14' - 0"	98' - 0"	27610	N/A	N/A	N/A	4769	3			
15R14.0/5.0-V-*			28383	28262	28555	N/A	5015	5			
15R14.0/7.5-V-*			N/A	33888	34186	34054	4931	7½			

\* Specify: Traverse Speed  
Rail Size  
Voltage

Kit Consists of: 2 trucks with bumpers - flat tread wheels are standard  
1 NEMA 4/12 panel with disconnect  
2 Drives, each with Motor, AC disc brake and hollow shaft reducer

Note: Use Yale® Shaw-Box® Crane Component Specifications catalog to calculate the correct bumper size for your application or call factory.

\*\*When selecting bridge motor hp shown on this page, motors are sized based on 66% of the total calculated hp required for contactor or variable frequency drive (VFD) control. However, if the reverse plugging feature of the VFD is to be used, motors should be sized to 75% of the total calculated hp required to get full reverse plugging performance.

†For 575 volt applications - See Rotating Axle Options Section.

Watch 230v amp draws - 1-3 hp panels have 30 amp disconnect, 5-10 hp panels have 60 amp.

**Options**

**End Trucks**

Wheel bases in 6" increments are also available from a minimum of 9' - 0" to a maximum of 14' - 0".

Add for wheel bases in-between cataloged wheel bases in 6" increments add \$132 per 6"

Add for wheel bases in-between cataloged wheel bases in other than 6" increments add \$411

For pricing on wheel bases other than those listed contact factory.

Note: Drives shipped assembled but not mounted to trucks.



**Variable Frequency Control †**

Kit Number	Wheel Base	Max. Span	Traverse Speed/List Price				Weight (lbs)	HP Each Motor	Max. Durability Wheel Load		
			100	150	200	250			ASCE 40#	ASCE 60# & 70# ARA-B 100#	ASCE 80# & 85# ARA-A 100# BETH 104# USS 105#
18R9.0/5.0-V-*	9' - 0"	63' - 0"	42857	N/A	N/A	N/A	6181	5	33700	47200	50500
18R9.0/7.5-V-*			50768	47206	47206	N/A	6311	7½			
18R9.0/10.0-V-*			N/A	52524	50098	50505	5931	10			
18R10.0/5.0-V-*	10' - 0"	70' - 0"	43692	N/A	N/A	N/A	6385	5			
18R10.0/7.5-V-*			51625	48009	48009	N/A	6515	7½			
18R10.0/10.0-V-*			N/A	53339	50915	51240	6135	10			
18R11.0/5.0-V-*	11' - 0"	77' - 0"	44533	N/A	N/A	N/A	6589	5			
18R11.0/7.5-V-*			52491	48927	48927	N/A	6719	7½			
18R11.0/10.0-V-*			N/A	54317	51891	52357	6339	10			
18R12.0/5.0-V-*	12' - 0"	84' - 0"	45369	N/A	N/A	N/A	6813	5			
18R12.0/7.5-V-*			53352	49894	49894	N/A	6923	7½			
18R12.0/10.0-V-*			N/A	55297	52871	53477	6543	10			
18R13.0/5.0-V-*	13' - 0"	91' - 0"	46201	N/A	N/A	N/A	5767	5			
18R13.0/7.5-V-*			54209	50836	50836	N/A	7127	7½			
18R13.0/10.0-V-*			N/A	56153	53729	54330	6747	10			
18R14.0/5.0-V-*	14' - 0"	98' - 0"	47033	N/A	N/A	N/A	5971	5			
18R14.0/7.5-V-*			55065	51694	51694	N/A	7331	7½			
18R14.0/10.0-V-*			N/A	57008	54584	55188	6951	10			

\* **Specify:** Traverse Speed  
Rail Size  
Voltage

**Kit Consists of:** 2 trucks with bumpers - **flat tread wheels are standard**  
1 NEMA 4/12 panel with disconnect  
2 Drives, each with Motor, AC disc brake and hollow shaft reducer

**Note:** Use Yale® Shaw-Box® Crane Component Specifications catalog to calculate the correct bumper size for your application or call factory.

\*\*When selecting bridge motor hp shown on this page, motors are sized based on 66% of the total calculated hp required for contactor or variable frequency drive (VFD) control. However, if the reverse plugging feature of the VFD is to be used, motors should be sized to 75% of the total calculated hp required to get full reverse plugging performance.

†For 575 volt applications - See Rotating Axle Options Section.

**Watch 230v amp draws** - 1-3 hp panels have 30 amp disconnect, 5-10 hp panels have 60 amp.

**Options**

**End Trucks**

Wheel bases in 6" increments are also available from a minimum of 9' - 0" to a maximum of 14' - 0".

Add for wheel bases in-between cataloged wheel bases in 6" increments add **\$439** per 6"

Add for wheel bases in-between cataloged wheel bases in other than 6" increments add **\$733**

For pricing on wheel bases other than those listed contact factory.

**Note:** Drives shipped assembled but not mounted to trucks.



# Rotating Axle End Truck Individual Components

## Rotating Axle End Trucks (Flat Tread Wheels Standard)

**Rotating Axle End Trucks Only** - No Drives or Controls  
1 pair with Conical Bumpers and Rail Sweeps

Add for tapered tread driver wheels - for quantity of 2

Reference Number	Wheel Diameter	Wheel Base	Rail Size	List Price	Wt. (lbs)	
TRRA954	9"	4'-6"	20 - 30# ASCE	6655	930	
TRRA972		6'-0"		6887	1077	
TRRA990		7'-6"		7145	1224	
TRRA996		8'-0"		7224	1273	
TRRA9108		9'-0"		7389	1371	
TRRA9120		10'-0"		7553	1469	
TRRA954		4'-6"	40 - 70# ASCE	6655	930	
TRRA972		6'-0"		6887	1077	
TRRA990		7'-6"		7145	1224	
TRRA996		8'-0"		7224	1273	
TRRA9108		9'-0"		7389	1371	
TRRA9120		10'-0"		7553	1469	
TRRA12108		12"	9'-0"	30 - 50# ASCE	11386	2238
TRRA12120			10'-0"		11554	2360
TRRA12132	11'-0"		11720		2482	
TRRA12144	12'-0"		11885		2604	
TRRA12156	13'-0"		12055		2726	
TRRA12168	14'-0"		12221		2848	
TRRA12108	9'-0"		60 - 85# ASCE	11386	2238	
TRRA12120	10'-0"			11554	2360	
TRRA12132	11'-0"			11720	2482	
TRRA12144	12'-0"			11885	2604	
TRRA12156	13'-0"			12055	2726	
TRRA12168	14'-0"			12221	2848	
TRRA15108	15"		9'-0"	30 - 50# ASCE	15855	3301
TRRA15120			10'-0"		16097	3450
TRRA15132		11'-0"	16333		3599	
TRRA15144		12'-0"	16573		3748	
TRRA15156		13'-0"	16811		3897	
TRRA15168		14'-0"	17051		4046	
TRRA15108		9'-0"	60 - 85# ASCE	15855	3301	
TRRA15120		10'-0"		16097	3450	
TRRA15132		11'-0"		16333	3599	
TRRA15144		12'-0"		16573	3748	
TRRA15156		13'-0"		16811	3897	
TRRA15168		14'-0"		17051	4046	
TRRA18108		18"	9'-0"	30 - 50# ASCE	23844	4846
TRRA18120			10'-0"		24679	5050
TRRA18132	11'-0"		25516		5254	
TRRA18144	12'-0"		26351		5458	
TRRA18156	13'-0"		27185		5662	
TRRA18168	14'-0"		28018		5866	
TRRA18108	9'-0"		60 - 85# ASCE	23844	4846	
TRRA18120	10'-0"			24679	5050	
TRRA18132	11'-0"			25516	5254	
TRRA18144	12'-0"			26351	5458	
TRRA18156	13'-0"			27185	5662	
TRRA18168	14'-0"			28018	5866	

Wheel Diameter	Suggested List Add For Two (2)
9"	\$ 557
12"	662
15"	739
18"	823

Contact Factory for lead time on tapered tread wheels.

**Spark Resistant Features** - See Rotating Axle Options Section.

### End Connection

"Whales Tail" End Connection Kit Catalog No. 444697-10 is designed for fixed axle end trucks. However, the End Connection Kits may possibly be used on certain smaller sized rotating axle end trucks. Consult factory for specific applications and assistance.

### Special Axles

Special Axles can be quoted on request. Consult factory for prices and lead time.

### Square Bar Runway Rail Applications

Rotating Axle Wheel Dia.	Min. Height	Width		Price Add
		Min.	Max.	
9"	1"	1"	2-1/4"	836
12"	1-1/4"	1-1/2"	2-5/8"	989
15"	1-1/4"	1-1/2"	2-5/8"	1108
18"	1-3/8"	1-1/2"	2-5/8"	1233

**Note:** Please Specify Rail with Order



## Rotating Axle

**NEMA 4 Brake**  
(For outdoor applications) ..... **191**

**NEMA 4X Enclosure Adders**  
Fiberglass ..... **617**  
Stainless Steel ..... **1342**

**Strip Heater Package**  
(Non Hazardous areas only) ..... **762**  
Includes: Heaters in both motors  
& control panel with transformer

**Warning Horn**  
(must specify method of activation) ..... **384**

**Warning Light**  
(must specify method of activation) ..... **643**

**Travel Limit Switch**  
Single Switch, Bi-Directional (Trip Dog by others)  
NEMA 4/12 ..... **767**  
Intrinsically safe (Hazardous area) ..... **1172**

**Disconnect Panel Adders:**  
60 Amp Panel ..... **229**  
100 Amp Panel ..... **300**

**Thermal Overload Relays:**  
Single Speed ..... **207**  
2-Speed ..... **354**

**Adjustable EAC (115 Volt Control)**  
208/230 Volt, 1-2 HP ..... **612**  
208/230 Volt, 3-6 HP ..... **1359**  
460 Volt, 1-4 HP ..... **612**  
460 Volt, 5-10 HP ..... **1359**

**Variable Frequency Drive - 575/3/60 Volt**  
**Price Adder to standard 460 VFD Panels**  
1½ Maximum Motor HP ..... **4318**  
2 Maximum Motor HP ..... **4318**  
3 Maximum Motor HP ..... **4117**  
5 Maximum Motor HP ..... **3385**  
7½ Maximum Motor HP ..... **2801**  
10 Maximum Motor HP ..... **3230**

**Deduct VFD Controls**  
1½ HP Each Motor ..... **-(2780)**  
2 HP Each Motor ..... **-(3511)**  
3 HP Each Motor ..... **-(3949)**  
5 HP Each Motor ..... **-(4242)**  
7½ HP Each Motor ..... **-(7168)**  
10 HP Each Motor ..... **-(9072)**

**Deduct for 2 Speed Control in lieu of VFD**  
1½ HP Each Motor ..... **-(877)**  
2 HP Each Motor ..... **-(962)**  
3 HP Each Motor ..... **-(962)**  
5 HP Each Motor ..... **-(1171)**



**Explosion Proof/Spark Resistant Options**

**Intrinsically Safe Relays**

Single Speed - per motion .....	<b>617</b>
2-Speed - per motion .....	<b>1225</b>

**Spark Resistant Wheels**

**Top-Running**

9" Bronze Wheels.....	<b>9895</b>
with Rail Sweeps .....	<b>11986</b>
12" Bronze Wheels.....	<b>15055</b>
with Rail Sweeps .....	<b>17133</b>
15" Bronze Wheels.....	<b>17338</b>
with Rail Sweeps .....	<b>20248</b>
18" Bronze Wheels.....	<b>21679</b>
with Rail Sweeps .....	<b>25308</b>

**Explosion Proof Motor/Control\* - Add to standard Rotating Axle Kits in this catalog**

Division 1			Division 2				
Class 1, Group C & D Class 2, Group F & G		Drive HP	Class 1, Group C & D		Drive HP	Class 2, Group F & G	
1-Speed	2-Speed		1-Speed	2-Speed		1-Speed	2-Speed
10841	12801	1	4490	5822	1	1319	1972
12198	12814	1-1/2	5782	5838	1-1/2	1319	1972
12198	12814	2	5782	5838	2	1319	1972
12198	12814	3	5782	5838	3	1319	1972
-	16462	5	-	5458	5	1319	1972
-	21060	7-1/2	-	6985	7-1/2	1319	1972
-	27038	10	-	8966	10	1319	1972

\*For VFD Controls - Contact Factory



## NEMA 4/12 Panel with Built In Disconnect Without Soft-Start For Bridge Traverse Motions

<b>Feature</b>	<b>1-3 h.p.</b>	<b>5-10 h.p.</b>
NEMA 4/12 Panel	20 W X 16 H X 8.8" D*	24 W X 20 H X 10.8" D
Mainline Contactor	30 Amp**	60 Amp**
Control Transformer	115V/75VA	115V/100VA
Disconnect with Panel Mounted Handle	30 Amp**	60 Amp**
Fuses	Yes	Yes
Soft-Start	<b>No</b>	<b>No</b>
Hinge Point	Horizontal at bottom of panel	Horizontal at bottom of panel

\*Adding a 60 amp disconnect increases enclosure size to the 5-10 hp panel.

**Do not use single speed control for speeds over 100 F.P.M. Two speed control over 100 F.P.M. requires an electronic acceleration control.**

For Maximum Total H.P.	Voltage	Single Speed			Two Speed		
		Catalog Number	List Price	Weight (lbs)	Catalog Number	List Price	Weight (lbs)
1	230	444231-21	1569	75	444232-21	1626	85
2		444231-22	1569		444232-22	1626	
3		444231-23	1852		444232-23	1957	
5		444231-25	2139	115	444232-25	2293	125
7.5		444231-27	2139		444232-27	2293	
10		444231-29	2139		444232-29	2293	
1	460	444231-41	1569	75	444232-41	1626	85
2		444231-42	1569		444232-42	1626	
3		444231-43	1569		444232-43	1626	
5		444231-45	1852	115	444232-45	1957	125
7.5		444231-47	2139		444232-47	2293	
10		444231-49	2139		444232-49	2293	
1	575	444231-51	1569	75	444232-51	1626	85
2		444231-52	1569		444232-52	1626	
3		444231-53	1569		444232-53	1626	
5		444231-55	1852	115	444232-55	1957	125
7.5		444231-57	2139		444232-57	2293	
10		444231-59	2139		444232-59	2293	

\*\* Please check the total amperage draw requirements for your crane application so the amperage limits of the mainline contactor and disconnect are not exceeded. Especially on 230 volt applications.

**Note:** Panel has room for addition of field installed soft-start. Reference components sections for prices.

**Note:** For approximate shipping weights add 10%



## NEMA 4/12 Panel with Built In Disconnect With Soft-Start Built In For Bridge Traverse Motions

†Price Includes;

<b>Feature</b>	<b>1-3 h.p.</b>	<b>5-10 h.p.</b>
NEMA 4/12 Panel	20 W X 16 H X 8.8" D*	24 W X 20 H X 10.8"D
Mainline Contactor	30 Amp**	60 Amp**
Control Transformer	115V/75VA	115V/100VA
Disconnect with Panel Mounted Handle	30 Amp**	60 Amp**
Fuses	Yes	Yes
Soft-Start	<b>Yes</b>	<b>Yes</b>
Hinge Point	Horizontal at bottom of panel	Horizontal at bottom of panel

\*Adding a 60 amp disconnect increases enclosure size to the 5-10 hp panel.

**Do not use single speed control for speeds over 100 F.P.M. Two speed control over 100 F.P.M. requires an electronic acceleration control.**

For Maximum Total H.P.	Voltage	Single Speed			Two Speed		
		Catalog Number	List Price	Weight (lbs)	Catalog Number	List Price	Weight (lbs)
1	230	444711-21	2175	85	444712-21	2229	95
2		444711-22	2175		444712-22	2229	
3		444711-23	3196	125	444712-23	3300	135
5		444711-25	3196		444712-25	3300	
7.5		—	-		—	-	
10		—	-		—	-	
1	460	444711-41	1929	85	444712-41	2080	95
2		444711-42	2175		444712-42	2229	
3		444711-43	2914	125	444712-43	2973	135
5		444711-45	3196		444712-45	3300	
7.5		444711-47	3483		444712-47	3560	
10		444711-49	3483		444712-49	3560	

\*\* Please check the total amperage draw requirements for your crane application so the amperage limits of the mainline contactor and disconnect are not exceeded. Especially on 230 volt applications.

**Note:** Panel has room for addition of field installed soft-start. Reference components sections for prices.



## NEMA 4/12 Panel with Built In Disconnect For Bridge Traverse Motions Speed range up to 20:1 (in F.P.M.)

**Price Includes;**

<u>Feature</u>	<u>1-3 hp*</u>	<u>5-10 hp</u>
Electromotive Drive Type	G+ Mini	G+ Mini
Control only CMAA Service Class	D	D
NEMA 4/12 Panel	20 W X 16 H X 8.5 D*	24 W X 20 H X 10.5 D
Control Points	2-step, 3-step or 2-step & 3-step infinitely variable	2-step, 3-step & 5-step or 2-step & 3-step infinitely variable
Mainline Contactor	30 Amp	60 Amp*
Control Transformer	115V / 75VA	115V / 75VA
Disconnect with Panel Mounted Handle	30 Amp	60 Amp
External Dynamic Braking Resistor	Yes	Yes
Fuses	Yes	Yes
Hinge Point	Horizontal at bottom of panel	Horizontal at bottom of panel

**Includes: AC Brake Relay (12 amp), Surge Suppression on Coil and Space Terminal Board (10 terminals)**

Max. Total H.P.	Power Supply	** Max. Full Load Amps	List Price	Catalog Number	*** Wt. (lbs)	Power Supply	** Max. Full Load Amps	List Price	Catalog Number	*** Wt. (lbs)
1	200 to 230 Volts 50/60 Hz	5.0	2516	448550-21	80	380 to 460 Volts 50/60 Hz	3.4	2619	448550-41	80
2		8.0	2721	448550-22			3.4	2619	448550-42	
3		11.0	2841	448550-23			4.8	2792	448550-43	
5		17.5	3467	448550-25	105		8.6	3540	448550-45	105
7½		25.0	4055	448550-27			14.8	4278	448550-47	
10		33.0	4438	448550-29			18.0	4745	448550-49	

\* 3 hp panel for 460 volts is 24 W X 20 H X 10.5 D. \*Adding a 60 amp disconnect increases enclosure size to the 5-10 hp panel.

\*\* Please check the total amperage draw requirements for your crane application so the amperage limits of the mainline contactor and disconnect are not exceeded. Especially on 230 volt applications.

\*\*\* Add 15% for approximate shipping weight.

†For 575 volt applications - See Rotating Axle Options Section.



