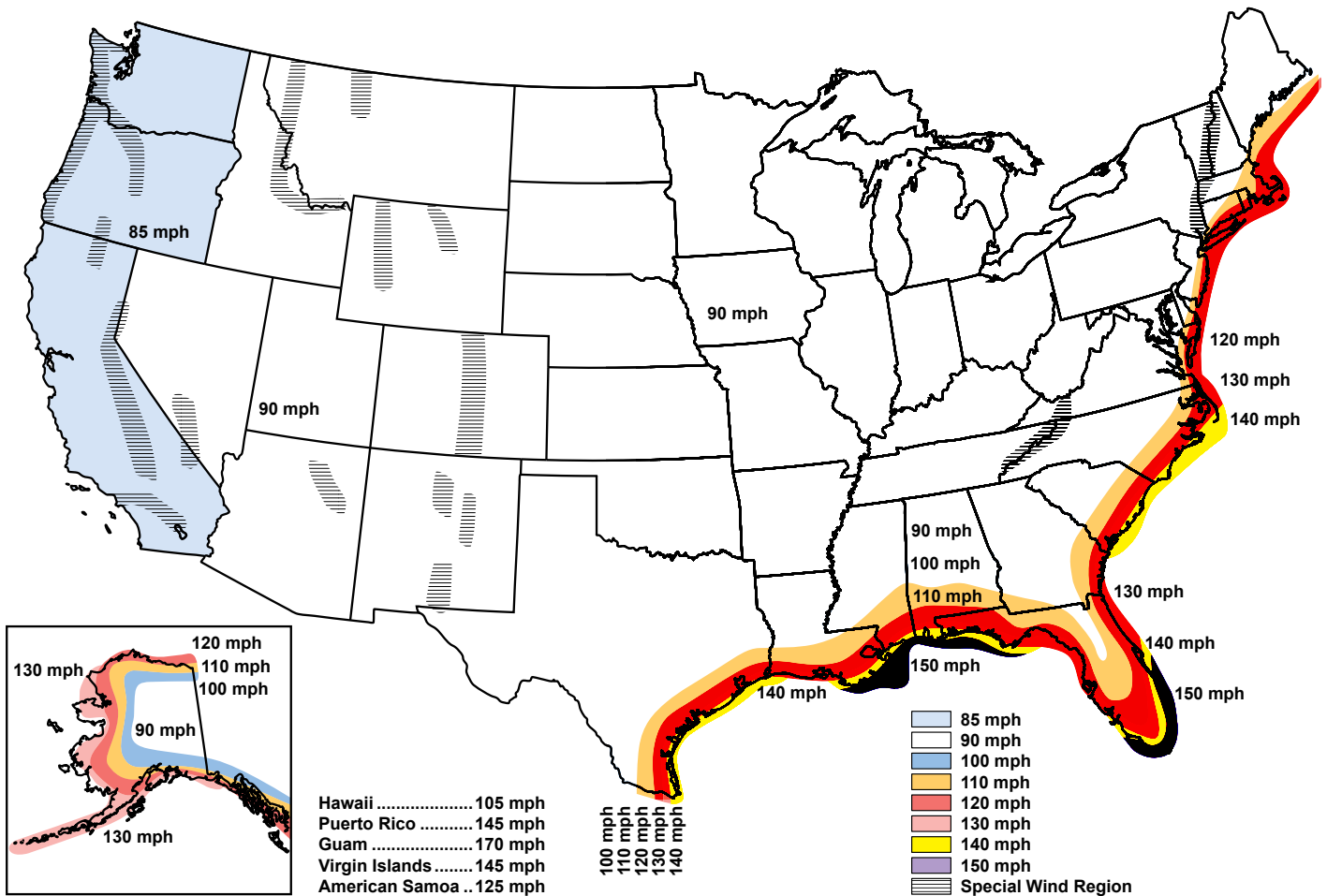


## GROUND SET CONE TAPERED ALUMINUM FLAGPOLES WIND LOAD CHART

The map below shows the maximum steady wind expected at an elevation of thirty feet above ground level within a fifty-year period of recurrence. Areas with the same maximum constant or steady wind speed are indicated.



Because wind speeds are usually not constant, and gusts are involved, flagpoles (both flagged and unflagged) are listed in this catalog with a constant wind speed and a 1.3 gust factor.

Flagpoles and their associated wind speeds listed assume that ten percent of the overall length of the flagpole is buried at or near ground level per industry recommendations. Special engineering may be required for other applications such as wall or roof mounted flagpoles. Contact us for a prompt response regarding any situation that may require special engineering.

**Safe flagpole design requires knowledge of the loads to which they will be subjected.** Principal load acting on flagpoles is wind load and that load must be carefully determined. Maximum wind speeds to which flagpoles are exposed are dependent upon many factors such as geographical location, whether or not it is in the center of a large city, a small town's outskirts, seashore, at ground level or on the roof of a high building. Wind speeds generally are higher along coastal areas than inland. They are also higher in open country than in the center of cities. Wind speed also becomes greater as height above ground increases. Wind exerts a force on the pole as well as the flag, thus both loads must be added to determine total load. Flags of different sizes are designed to be flown from different poles.

**It's important that flagpoles be selected which are capable of supporting the largest flag intended to be flown in the highest wind speed to which it will be subjected.** Loads on flagpoles are resisted by the mounting foundation, roof, or wall to which it is secured.

- Specified wind speed calculations are based on nylon flag material
- All flagpole design calculations are in accordance with GUIDE SPECIFICATIONS FOR DESIGN LOADS OF METAL FLAGPOLES, ASNI/NAAMM FL 1001-07 Fifth Ed.

**PLEASE NOTE: recommended flag sizes throughout this catalog do not represent a warranty that the flag size shown may be safely flown in all wind speeds. Personal injury, flagpole damage or property damage can occur when flying oversized flags and banners or flying flags in higher winds than recommended.**

# OUTDOOR FLAGPOLES | Architectural

## ARCHITECTURAL SERIES

External Halyard Ground Set Cone Tapered Aluminum Flagpoles

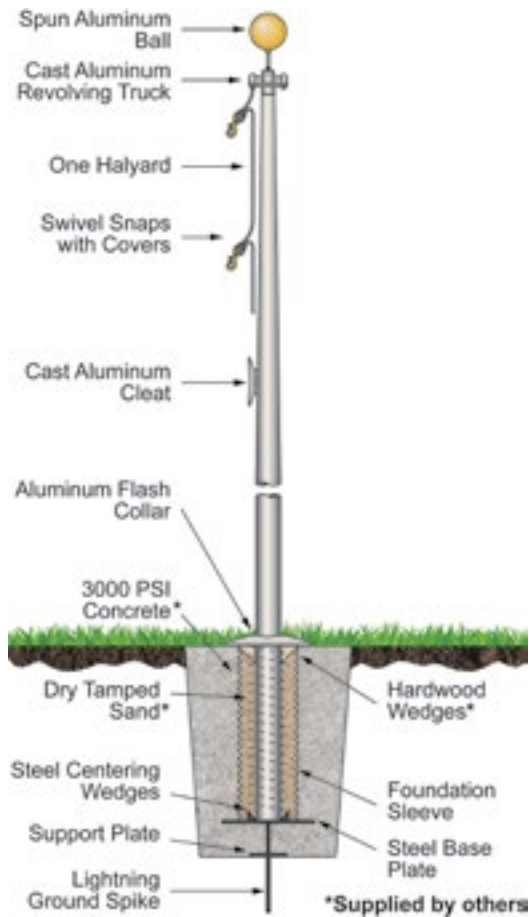
### STANDARD ACCESSORIES

- Gold anodized aluminum ball ornament
- Cast aluminum revolving truck w/pulley
- Solid braided polyester halyard
- Swivel flag snaps w/vinyl snap covers
- Cast aluminum cleat with mounting screws
- Spun aluminum flash collar
- Galvanized steel foundation sleeve

MODEL	EXPOSED HEIGHT	OVERALL LENGTH	# OF SECTIONS	BUTT DIA.	TOP DIA.	WALL	UNFLAGGED MAX. WIND SPEED	FLAGGED MAX. WIND SPEED	SUGGESTED FLAG SIZE	SHIPPING WEIGHT
EC20	20'	23'	1	5"	3"	.188	315 MPH	120+ MPH	3' x 5'	137 lbs.
EC25	25'	27'	1	6"	3-1/2"	.188	250 MPH	120+ MPH	4' x 6'	195 lbs.
EC30	30'	33'	1 or 2*	6"	3-1/2"	.188	211 MPH	120+ MPH	5' x 8'	227 lbs.
EC35	35'	38-1/2'	1 or 2*	7"	3-1/2"	.188	202 MPH	120 MPH	6' x 10'	271 lbs.
EC40	40'	44'	2**	8"	3-1/2"	.188	203 MPH	120 MPH	8' x 12'	311 lbs.
EC45	45'	49-1/2'	2**	8"	3-1/2"	.188	166 MPH	100 MPH	8' x 12'	361 lbs.
EC50	50'	55'	3**	10"	4"	.188	185 MPH	115 MPH	10' x 15'	513 lbs.
EC60	60'	66'	3**	12"	4"	.250	213 MPH	120 MPH	12' x 18'	833 lbs.
EC70	70'	77'	3**	12"	4"	.250	169 MPH	105 MPH	15' x 25'	978 lbs.
EC80	80'	88'	3**	12"	4"	.375	174 MPH	105 MPH	20' x 30'	1357 lbs.

\* Flagpole models available in both one and two section styles; please specify when placing your order. Single section pole(s) will be shipped if not specified. **Add 10% to the pricing for two section style flagpoles.**

\*\* Flagpole models available in multi-piece pole(s) only.



### SATIN

MODEL	ITEM #	1-2	3-6	7+
EC20	320113	\$2,390	\$2,270	\$2,170
EC25	320114	3,020	2,930	2,740
EC30	320115	3,380	3,270	3,030
EC35	320116	4,550	4,280	4,070
EC40	320117	5,840	5,640	5,370
EC45	320118	6,600	6,280	5,960
EC50	320119	8,940	8,520	8,100
EC60	320120	17,350	16,470	15,630
EC70	320121	19,540	18,590	17,590
EC80	320122	24,390	23,360	22,150

### CLEAR ANODIZED

MODEL	ITEM #	1-2	3-6	7+
EC20	320123	\$2,910	\$2,790	\$2,610
EC25	320124	3,700	3,480	3,330
EC30	320125	4,130	3,940	3,700
EC35	320126	5,500	5,280	4,950
EC40	320127	7,150	6,780	6,410
EC45	320128	7,920	7,530	7,100
EC50	320129	11,090	10,550	9,960
EC60	320130	19,920	18,920	17,920
EC70	320131	22,480	21,370	20,230
EC80	320132	28,500	27,040	25,670

### BRONZE ANODIZED

MODEL	ITEM #	1-2	3-6	7+
EC20	320133	\$2,980	\$2,870	\$2,700
EC25	320134	3,740	3,600	3,380
EC30	320135	4,220	4,010	3,810
EC35	320136	5,660	5,360	5,060
EC40	320137	7,340	6,990	6,620
EC45	320138	8,170	7,730	7,340
EC50	320139	11,420	10,890	10,290
EC60	320140	20,390	19,370	18,340
EC70	320141	23,050	21,850	20,690
EC80	320142	29,060	27,630	26,070

### BLACK ANODIZED

MODEL	ITEM #	1-2	3-6	7+
EC20	320143	\$3,140	\$2,960	\$2,780
EC25	320144	3,980	3,800	3,590
EC30	320145	4,500	4,280	4,030
EC35	320146	5,930	5,620	5,310
EC40	320147	7,730	7,340	6,960
EC45	320148	8,620	8,180	7,730
EC50	320149	12,060	11,410	10,860
EC60	320150	21,140	20,060	18,980
EC70	320151	23,940	22,680	21,510
EC80	320152	30,100	28,630	27,060

Add \$60.00 to any of the flagpole pricing above for double-cleat/double-halyard flagpoles.

## HURRICANE SERIES FLAGPOLES

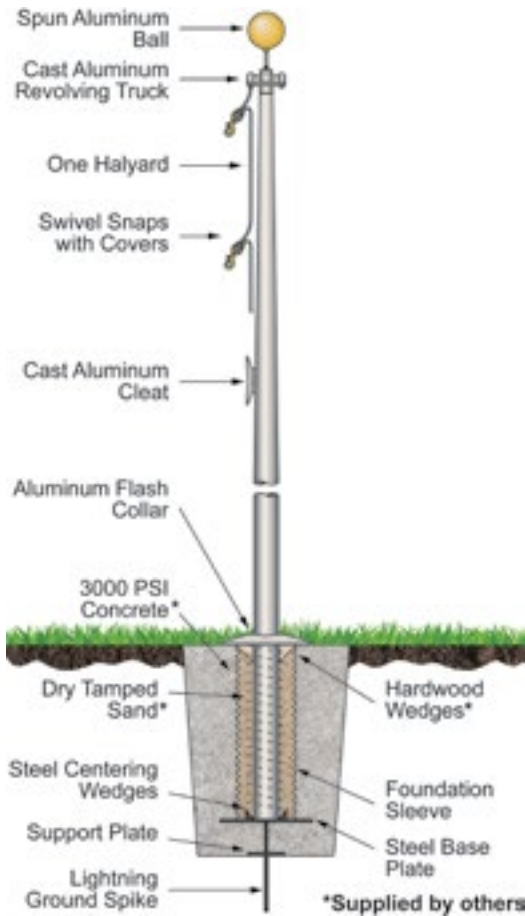
External Halyard Ground Set Cone Tapered Aluminum Flagpoles

### STANDARD EXTERNAL POLE ACCESSORIES

- Gold anodized aluminum ball ornament
- Cast aluminum revolving truck w/pulley
- Solid braided polyester halyard
- Swivel flag snaps w/vinyl snap covers
- Cast aluminum cleat with mounting screws
- Spun aluminum flash collar
- Galvanized steel foundation sleeve

**Increased Wall Thickness or Butt Diameter Make Our Hurricane Series Flagpoles the Best Choice for High Wind Locations**

MODEL	EXPOSED HEIGHT	OVERALL LENGTH	# OF SECTIONS	BUTT DIA.	TOP DIA.	WALL	UNFLAGGED MAX. WIND SPEED	FLAGGED MAX. WIND SPEED	SUGGESTED FLAG SIZE	SHIPPING WEIGHT
ECH25	25'	27'	1	6"	3-1/2"	.250	255 MPH	150+ MPH	4' x 6'	239 lbs.
ECH30	30'	33'	2	6"	3-1/2"	.250	241 MPH	150+ MPH	5' x 8'	322 lbs.
ECH35	35'	38-1/2'	2	8"	3-1/2"	.250	255 MPH	150 MPH	6' x 10'	351 lbs.
ECH40	40'	44'	2	8"	3-1/2"	.250	231 MPH	150 MPH	8' x 12'	399 lbs.
ECH50	50'	55'	3	10"	4"	.312	230 MPH	150 MPH	10' x 15'	661 lbs.



### SATIN

MODEL	ITEM #	1-2	3-6	7+
ECH25	324117	\$4,080	\$3,890	\$3,740
ECH30	324118	5,580	5,370	5,110
ECH35	324119	6,260	5,960	5,740
ECH40	324120	7,240	6,930	6,650
ECH50	324121	13,580	13,060	12,540

### CLEAR ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECH25	324122	\$4,680	\$4,490	\$4,210
ECH30	324123	6,410	6,110	5,890
ECH35	324124	7,330	6,990	6,730
ECH40	324125	8,550	8,210	7,910
ECH50	324126	15,560	14,950	14,320

### BRONZE ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECH25	324127	\$4,870	\$4,680	\$4,490
ECH30	324128	6,540	6,260	6,040
ECH35	324129	7,630	7,340	7,000
ECH40	324130	8,840	8,490	8,170
ECH50	324131	16,090	15,470	14,830

### BLACK ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECH25	324132	\$5,100	\$4,920	\$4,710
ECH30	324133	6,790	6,600	6,260
ECH35	324134	8,070	7,730	7,480
ECH40	324135	9,350	8,950	8,630
ECH50	324136	16,790	16,170	15,480

Add \$60.00 to any of the flagpole pricing above for double-cleat/double-halyard flagpoles.

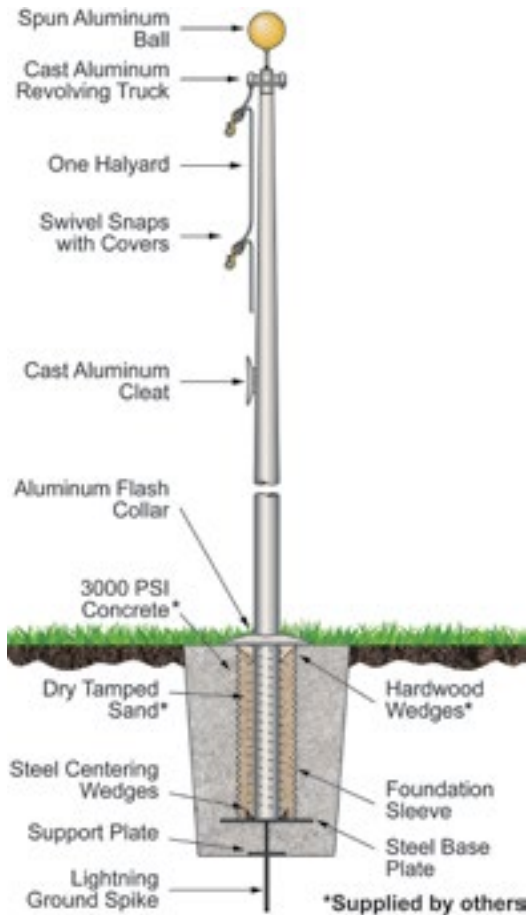
## ATLAS SERIES

External Halyard Ground Set Cone Tapered Aluminum Flagpoles

### STANDARD ACCESSORIES

- Gold anodized aluminum ball ornament
- Cast aluminum revolving truck with pulley (ECSA20 & ECSA25 poles have a stationary truck as standard)
- Solid braided polyester halyard
- Swivel flag snaps w/vinyl snap covers
- Cast aluminum cleat with mounting screws
- Spun aluminum flash collar
- Galvanized steel foundation sleeve

MODEL	EXPOSED HEIGHT	OVERALL LENGTH	# OF SECTIONS	BUTT DIA.	TOP DIA.	WALL	UNFLAGGED MAX. WIND SPEED	FLAGGED MAX. WIND SPEED	SUGGESTED FLAG SIZE	SHIPPING WEIGHT
ECSA20	20'	22'	1	4"	2-3/8"	.125	152 MPH	110 MPH	3' x 5'	92 lbs.
ECSA25	25'	27'	1	4"	2-3/8"	.125	113 MPH	88 MPH	4' x 6'	112 lbs.
ECXA25	25'	27'	1	5"	3"	.156	183 MPH	120 MPH	4' x 6'	147 lbs.
ECXA30	30'	33'	1 or 2*	5"	3"	.156	119 MPH	95 MPH	5' x 8'	162 lbs.
ECL30	30'	33'	1	5"	3"	.188	131 MPH	100 MPH	5' x 8'	180 lbs.
ECA30	30'	33'	1 or 2*	6"	3-1/2"	.156	184 MPH	115 MPH	5' x 8'	218 lbs.
ECSA35	35'	38-1/2'	1	5"	3"	.188	104 MPH	86 MPH	6' x 10'	228 lbs.
ECA35	35'	38-1/2'	1 or 2*	7"	3-1/2"	.156	175 MPH	114 MPH	6' x 10'	251 lbs.
ECA40	40'	44'	2**	8"	3-1/2"	.156	171 MPH	110 MPH	8' x 12'	298 lbs.
ECXA60	60'	66'	3**	10"	4"	.250	150 MPH	106 MPH	12' x 18'	754 lbs.



Note: the ECSA20 and ECSA25 flagpoles are not supplied with a plate support or centering wedges.

\* Flagpole models available in both one and two section styles; please specify when placing your order. Single section pole(s) will be shipped if not specified. **Add 10% to the pricing for two section style flagpoles.**

\*\* Flagpole models available in multi-piece pole(s) only.

### SATIN

MODEL	ITEM #	1-2	3-6	7+
ECSA20	320337	\$1,310	\$1,250	\$1,170
ECSA25	320338	1,400	1,330	1,250
ECXA25	320339	2,380	2,210	2,110
ECXA30	320340	2,680	2,530	2,390
ECL30	320884	2,860	2,720	2,580
ECA30	320341	3,290	3,130	2,950
ECSA35	320342	2,980	2,840	2,670
ECA35	320343	3,910	3,680	3,500
ECA40	320344	5,730	5,530	5,250
ECXA60	320345	13,080	12,500	11,790

### CLEAR ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECSA20	320346	\$1,670	\$1,590	\$1,490
ECSA25	320347	1,800	1,710	1,640
ECXA25	320348	2,870	2,760	2,590
ECXA30	320349	3,220	3,080	2,890
ECL30	320885	3,350	3,220	3,000
ECA30	320350	4,000	3,810	3,590
ECSA35	320351	3,700	3,530	3,340
ECA35	320352	4,840	4,570	4,320
ECA40	320353	7,040	6,680	6,290
ECXA60	320354	15,410	14,650	13,890

### BRONZE ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECSA20	320355	\$1,750	\$1,660	\$1,560
ECSA25	320356	1,920	1,790	1,670
ECXA25	320357	3,010	2,860	2,720
ECXA30	320358	3,380	3,190	3,030
ECL30	320886	3,520	3,340	3,170
ECA30	320359	4,120	3,920	3,710
ECSA35	320360	3,750	3,570	3,420
ECA35	320361	4,960	4,730	4,440
ECA40	320362	7,220	6,880	6,510
ECXA60	320363	15,750	14,950	14,240

### BLACK ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECSA20	320364	\$1,840	\$1,750	\$1,650
ECSA25	320365	2,020	1,940	1,800
ECXA25	320366	3,080	2,940	2,780
ECXA30	320367	3,500	3,330	3,090
ECL30	320887	3,600	3,430	3,230
ECA30	320368	4,290	4,110	3,830
ECSA35	320369	3,990	3,750	3,570
ECA35	320370	5,230	4,970	4,730
ECA40	320371	7,610	7,220	6,860
ECXA60	320372	16,430	15,610	14,750

Add \$60.00 to any of the flagpole pricing above for double-cleat/double-halyard flagpoles.

## DELUXE IH SERIES

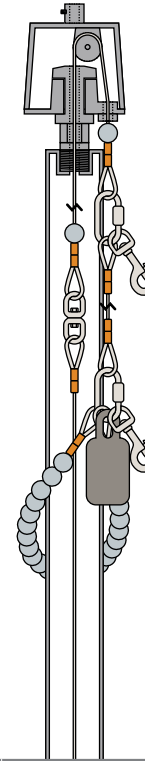
Internal Halyard Ground Set Cone Tapered Aluminum Flagpoles

These internal halyard flagpoles contain a winch mounted inside the flagpole shaft, operable only with a removable crank handle. As the stainless steel cable unwinds from the winch, it passes up through the inside of the flagpole shaft, over the truck sheave to the outside of the shaft, where the retainer ring provides a sliding anchor. A counterweight, heavily coated with neoprene, attached to the retainer ring, allows the halyard to be lowered for fastening or removing the flag. The winch is gearless and self-locking at any point, eliminating the need for a separate brake. This direct drive winch provides rapid raising and lowering of the flag with little effort. This design does not require any welding, thus avoiding discoloration when an anodized finish is desired. No monthly lubrication is needed.

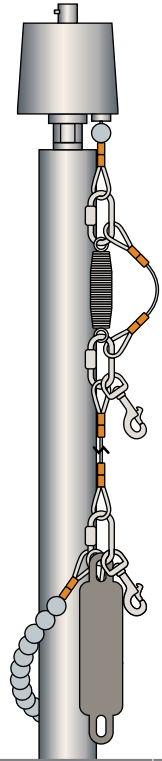
### STANDARD ACCESSORIES

- Cast aluminum revolving truck with enclosed stainless steel bearings and raceway
- Stainless Steel Cable Assembly
- Deluxe Flag Arrangement
- Retainer ring and counterweight
- M-Winch System
- Spun aluminum flash collar
- Galvanized steel foundation sleeve
- See [page 121-122](#) for optional ornament selections

20' – 35' Poles



40' – 80' Poles



MODEL	EXPOSED HEIGHT	OVERALL LENGTH	# OF SECTIONS	BUTT DIA.	TOP DIA.	WALL	UNFLAGGED MAX. WIND SPEED	FLAGGED MAX. WIND SPEED	SUGGESTED FLAG SIZE	SHIPPING WEIGHT
ECX20IH	20'	23'	1	5"	3"	.125	250 MPH	120+ MPH	3' x 5'	129 lbs.
EC20IH	20'	23'	1	5"	3"	.188	315 MPH	120+ MPH	3' x 5'	147 lbs.
ECX25IH	25'	27'	1	5"	3"	.125	144 MPH	104 MPH	4' x 6'	139 lbs.
ECXA25IH	25'	27'	1	5"	3"	.156	192 MPH	117 MPH	4' x 6'	157 lbs.
EC25IH	25'	27'	1	6"	3-1/2"	.188	222 MPH	120+ MPH	4' x 6'	195 lbs.
ECX30IH	30'	33'	1 or 2*	5"	3"	.125	110 MPH	75 MPH	5' x 8'	177 lbs.
ECXA30IH	30'	33'	1 or 2*	5"	3"	.156	119 MPH	91 MPH	5' x 8'	187 lbs.
ECL30IH	30'	33'	1	5"	3"	.188	131 MPH	100 MPH	5' x 8'	190 lbs.
ECA30IH	30'	33'	1 or 2*	6"	3-1/2"	.156	184 MPH	117 MPH	5' x 8'	239 lbs.
EC30IH	30'	33'	1 or 2*	6"	3-1/2"	.188	211 MPH	120+ MPH	5' x 8'	242 lbs.
ECXA35IH	35'	38-1/2'	1	5"	3"	.188	104 MPH	86 MPH	6' x 10'	241 lbs.
EC35IH	35'	38-1/2'	1 or 2*	6"	3-1/2"	.156	122 MPH	91 MPH	6' x 10'	261 lbs.
ECA35IH	35'	38-1/2'	1 or 2*	7"	3-1/2"	.156	179 MPH	117 MPH	6' x 10'	280 lbs.
EC35IH	35'	38-1/2'	1 or 2*	7"	3-1/2"	.188	200 MPH	120 MPH	6' x 10'	290 lbs.
ECX40IH	40'	44'	2**	7"	3-1/2"	.156	125 MPH	91 MPH	8' x 12'	282 lbs.
ECA40IH	40'	44'	2**	8"	3-1/2"	.156	171 MPH	110 MPH	8' x 12'	319 lbs.
EC40IH	40'	44'	2**	8"	3-1/2"	.188	203 MPH	120 MPH	8' x 12'	319 lbs.
EC45IH	45'	49-1/2'	2**	8"	3-1/2"	.188	166 MPH	100 MPH	8' x 12'	371 lbs.
ECX50IH	50'	55'	3**	8"	3-1/2"	.188	118 MPH	85 MPH	10' x 15'	443 lbs.
EC50IH	50'	55'	3**	10"	4"	.188	185 MPH	115 MPH	10' x 15'	523 lbs.
ECX60IH	60'	66'	3**	10"	4"	.188	122 MPH	90 MPH	12' x 18'	675 lbs.
ECXA60IH	60'	66'	3**	10"	4"	.250	150 MPH	106 MPH	12' x 18'	764 lbs.
EC60IH	60'	66'	3**	12"	4"	.250	213 MPH	120 MPH	12' x 18'	843 lbs.
ECX70IH	70'	77'	3**	10"	4"	.312	127 MPH	91 MPH	15' x 25'	1042 lbs.
EC70IH	70'	77'	3**	12"	4"	.250	169 MPH	105 MPH	15' x 25'	988 lbs.
EC80IH	80'	88'	3**	12"	4"	.375	174 MPH	105 MPH	20' x 30'	1367 lbs.

\* Flagpole models available in both one and two section styles; please specify when placing your order. Single section pole(s) will be shipped if not specified. **Add 10% to the pricing for two section style flagpoles.**

\*\* Flagpole models available in multi-piece pole(s) only.



## DELUXE IH SERIES

Internal Halyard Ground Set Cone Tapered Aluminum Flagpoles

### SATIN

MODEL	ITEM #	1-2	3-6	7+
ECX20IH	320473	\$3,090	\$2,930	\$2,770
EC20IH	320474	3,660	3,520	3,310
ECX25IH	320475	3,410	3,250	3,020
ECXA25IH	320476	3,740	3,530	3,370
EC25IH	320477	5,410	5,170	4,890
ECX30IH	320478	3,640	3,470	3,310
ECXA30IH	320479	4,030	3,830	3,630
ECL30IH	320892	4,280	4,080	3,900
ECA30IH	320480	6,120	5,790	5,490
EC30IH	320481	6,290	5,990	5,680
ECSA35IH	320482	4,440	4,220	4,000
ECX35IH	320483	6,240	5,940	5,620
ECA35IH	320484	6,570	6,260	5,920
EC35IH	320485	7,400	7,020	6,630
ECX40IH	320486	7,740	7,350	6,950
ECA40IH	320487	8,840	8,390	7,940
EC40IH	320488	8,950	8,510	8,050
EC45IH	320489	9,380	8,890	8,390
ECX50IH	320490	9,820	9,290	8,800
EC50IH	320491	11,830	11,200	10,650
ECX60IH	320492	13,930	13,210	12,500
ECXA60IH	320493	17,060	16,220	15,360
EC60IH	320494	21,160	20,110	19,010
ECX70IH	320495	19,340	18,360	17,370
EC70IH	320496	23,070	21,870	20,620
EC80IH	320497	29,820	27,950	26,520

### BRONZE ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECX20IH	320523	\$3,690	\$3,530	\$3,330
EC20IH	320524	4,280	4,110	3,890
ECX25IH	320525	4,070	3,870	3,630
ECXA25IH	320526	4,440	4,210	4,000
EC25IH	320527	6,330	5,970	5,670
ECX30IH	320528	4,430	4,190	3,970
ECXA30IH	320529	4,860	4,620	4,370
ECL30IH	320894	5,040	4,770	4,550
ECA30IH	320530	7,130	6,770	6,380
EC30IH	320531	7,330	6,960	6,620
ECSA35IH	320532	5,330	5,040	4,820
ECX35IH	320533	7,350	7,040	6,620
ECA35IH	320534	7,850	7,520	7,080
EC35IH	320535	8,730	8,310	7,800
ECX40IH	320536	9,150	8,680	8,250
ECA40IH	320537	10,440	9,930	9,370
EC40IH	320538	10,550	10,050	9,490
EC45IH	320539	11,190	10,620	10,070
ECX50IH	320540	11,810	11,240	10,630
EC50IH	320541	14,250	13,490	12,810
ECX60IH	320542	16,780	15,930	15,070
ECXA60IH	320543	20,200	19,230	18,170
EC60IH	320544	24,930	23,700	22,470
ECX70IH	320545	22,960	21,850	20,660
EC70IH	320546	27,510	26,150	24,770
EC80IH	320547	34,980	33,220	31,260

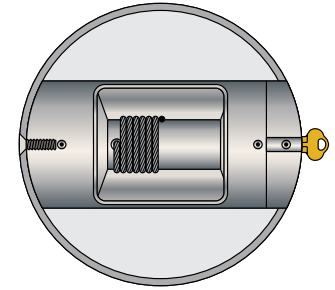
### CLEAR ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECX20IH	320498	\$3,620	\$3,500	\$3,240
EC20IH	320499	4,210	4,010	3,810
ECX25IH	320500	3,970	3,750	3,570
ECXA25IH	320501	4,360	4,130	3,900
EC25IH	320502	6,210	5,940	5,620
ECX30IH	320503	4,320	4,080	3,890
ECXA30IH	320504	4,710	4,530	4,210
ECL30IH	320893	4,910	4,700	4,390
ECA30IH	320505	7,050	6,670	6,320
EC30IH	320506	7,270	6,890	6,490
ECSA35IH	320507	5,280	4,990	4,750
ECX35IH	320508	7,250	6,850	6,480
ECA35IH	320509	7,680	7,330	6,940
EC35IH	320510	8,560	8,160	7,680
ECX40IH	320511	8,990	8,540	8,090
ECA40IH	320512	10,230	9,740	9,200
EC40IH	320513	10,330	9,860	9,310
EC45IH	320514	10,940	10,430	9,860
ECX50IH	320515	11,520	11,040	10,440
EC50IH	320516	13,890	13,210	12,530
ECX60IH	320517	16,240	15,440	14,610
ECXA60IH	320518	19,650	18,670	17,640
EC60IH	320519	24,290	23,120	21,840
ECX70IH	320520	22,320	21,200	20,090
EC70IH	320521	26,750	25,390	24,080
EC80IH	320522	34,060	32,360	30,660

### BLACK ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECX20IH	320548	\$3,820	\$3,620	\$3,440
EC20IH	320549	4,430	4,190	3,980
ECX25IH	320550	4,200	3,990	3,750
ECXA25IH	320551	4,560	4,360	4,110
EC25IH	320552	6,440	6,110	5,780
ECX30IH	320553	4,590	4,370	4,120
ECXA30IH	320554	4,990	4,760	4,500
ECL30IH	320895	5,190	4,950	4,680
ECA30IH	320555	7,340	6,990	6,600
EC30IH	320556	7,550	7,180	6,770
ECSA35IH	320557	5,580	5,290	4,970
ECX35IH	320558	7,600	7,260	6,850
ECA35IH	320559	8,130	7,680	7,280
EC35IH	320560	8,960	8,510	8,090
ECX40IH	320561	9,460	8,990	8,510
ECA40IH	320562	10,770	10,220	9,650
EC40IH	320563	10,890	10,320	9,770
EC45IH	320564	11,510	10,980	10,430
ECX50IH	320565	12,200	11,550	10,950
EC50IH	320566	14,760	13,990	13,260
ECX60IH	320567	17,230	16,370	15,540
ECXA60IH	320568	20,630	19,610	18,550
EC60IH	320569	25,480	24,140	22,820
ECX70IH	320570	23,430	22,290	21,050
EC70IH	320571	28,010	26,680	25,370
EC80IH	320572	35,410	33,670	31,880

M-Winch Detail



No welding required, thus no discoloration when anodized. No monthly lubrication needed.



## HURRICANE SERIES FLAGPOLES - WITH M-WINCH

Internal Halyard Ground Set Cone Tapered Aluminum Flagpoles

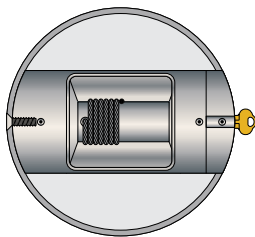
These internal halyard flagpoles contain a winch mounted inside the flagpole shaft, operable only with a removable crank handle. As the stainless steel cable unwinds from the winch, it passes up through the inside of the flagpole shaft, over the truck sheave to the outside of the shaft, where the retainer ring provides a sliding anchor. A counterweight, heavily coated with neoprene, attached to the retainer ring, allows the halyard to be lowered for fastening or removing the flag. The winch is gearless and self-locking at any point, eliminating the need for a separate brake. This direct drive winch provides rapid raising and lowering of the flag with little effort. This design does not require any welding, thus avoiding discoloration when an anodized finish is desired. No monthly lubrication is needed.

### STANDARD INTERNAL POLE ACCESSORIES

- Cast aluminum revolving truck with enclosed stainless steel bearings and raceway
- Stainless steel cable assembly
- Deluxe flag arrangement
- Retainer ring and counterweight
- M-Winch system
- Spun aluminum flash collar
- Galvanized steel foundation sleeve
- See [page 121-122](#) for optional ornament selections

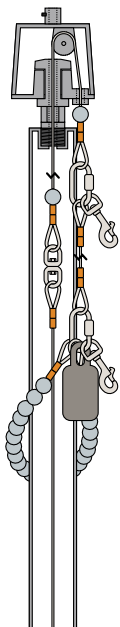
MODEL	EXPOSED HEIGHT	OVERALL LENGTH	# OF SECTIONS	BUTT DIA.	TOP DIA.	WALL	UNFLAGGED MAX. WIND SPEED	FLAGGED MAX. WIND SPEED	SUGGESTED FLAG SIZE	SHIPPING WEIGHT
ECH25IH	25'	27'	1	6"	3-1/2"	.250	255 MPH	150+ MPH	4' x 6'	243 lbs.
ECH30IH	30'	33'	2	6"	3-1/2"	.250	241 MPH	150+ MPH	5' x 8'	322 lbs.
ECH35IH	35'	38-1/2'	2	8"	3-1/2"	.250	255 MPH	150 MPH	6' x 10'	361 lbs.
ECH40IH	40'	44'	2	8"	3-1/2"	.250	231 MPH	150 MPH	8' x 12'	419 lbs.
ECH50IH	50'	55'	3	10"	4"	.312	230 MPH	150 MPH	10' x 15'	686 lbs.

M-Winch Detail

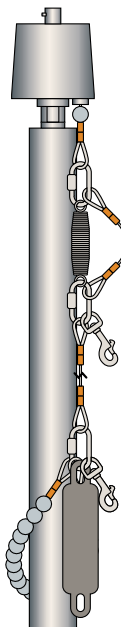


No welding required, thus no discoloration when anodized. No monthly lubrication needed.

20' - 35' Poles



40' - 80' Poles



### SATIN

MODEL	ITEM #	1-2	3-6	7+
ECH25IH	324137	\$6,670	\$6,450	\$6,230
ECH30IH	324138	8,320	8,000	7,680
ECH35IH	324139	9,090	8,690	8,370
ECH40IH	324140	10,370	9,950	9,550
ECH50IH	324141	16,980	16,270	15,630

### CLEAR ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECH25IH	324142	\$7,350	\$7,070	\$6,770
ECH30IH	324143	9,190	8,840	8,480
ECH35IH	324144	10,250	9,830	9,430
ECH40IH	324145	11,730	11,260	10,820
ECH50IH	324146	19,050	18,260	17,550

### BRONZE ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECH25IH	324147	\$7,560	\$7,290	\$6,950
ECH30IH	324148	9,350	8,950	8,630
ECH35IH	324149	10,520	10,130	9,690
ECH40IH	324150	12,060	11,550	11,130
ECH50IH	324151	19,540	18,780	17,990

### BLACK ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECH25IH	324152	\$7,800	\$7,520	\$7,190
ECH30IH	324153	9,660	9,280	8,890
ECH35IH	324154	10,950	10,530	10,130
ECH40IH	324155	12,570	12,080	11,540
ECH50IH	324156	20,230	19,450	18,670

## VANGUARD SERIES

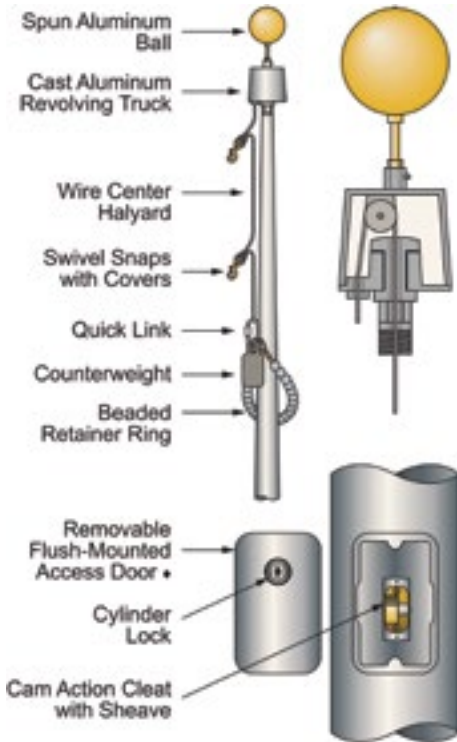
Internal Halyard Ground Set Cone Tapered Aluminum Flagpoles

The Vanguard series provides an intelligent, economical alternative to deluxe concealed halyard systems.

## STANDARD ACCESSORIES

- Gold anodized aluminum ball ornament
- Cast aluminum revolving truck on all flagpole models
- Nylon wire center halyard
- Swivel flag snaps w/vinyl snap covers
- Retainer ring and counterweight
- Stainless steel quick link
- Cam action cleat (accessible behind a lockable access door)
- Spun aluminum flash collar
- Galvanized steel foundation sleeve

MODEL	EXPOSED HEIGHT	OVERALL LENGTH	# OF SECTIONS	BUTT DIA.	TOP DIA.	WALL	UNFLAGGED MAX. WIND SPEED	FLAGGED MAX. WIND SPEED	SUGGESTED FLAG SIZE	SHIPPING WEIGHT
ECXV20	20'	23'	1	5"	3"	.125	250 MPH	120+ MPH	3' x 5'	129 lbs.
ECV20	20'	23'	1	5"	3"	.188	315 MPH	120+ MPH	3' x 5'	142 lbs.
ECXV25	25'	27'	1	5"	3"	.125	144 MPH	104 MPH	4' x 6'	139 lbs.
ECXAV25	25'	27'	1	5"	3"	.156	192 MPH	117 MPH	4' x 6'	152 lbs.
ECV25	25'	27'	1	6"	3-1/2"	.188	222 MPH	120+ MPH	4' x 6'	197 lbs.
ECXAV30	30'	33'	1 or 2*	5"	3"	.156	119 MPH	91 MPH	5' x 8'	185 lbs.
ECLV30	30'	33'	1	5"	3"	.188	127 MPH	96 MPH	5' x 8'	185 lbs.
ECAV30	30'	33'	1	6"	3-1/2"	.156	184 MPH	117 MPH	5' x 8'	224 lbs.
ECV30	30'	33'	1	6"	3-1/2"	.188	211 MPH	120+ MPH	5' x 8'	227 lbs.
ECXV35	35'	38-1/2'	1	6"	3-1/2"	.156	122 MPH	91 MPH	6' x 10'	247 lbs.
ECAV35	35'	38-1/2'	1	7"	3-1/2"	.156	179 MPH	117 MPH	6' x 10'	261 lbs.
ECV35	35'	38-1/2'	1	7"	3-1/2"	.188	200 MPH	120 MPH	6' x 10'	281 lbs.
ECXV40	40'	44'	2**	7"	3-1/2"	.156	125 MPH	91 MPH	8' x 12'	294 lbs.
ECV40	40'	44'	2**	8"	3-1/2"	.188	195 MPH	120 MPH	8' x 12'	319 lbs.



\* Flagpole models available in both one and two section styles; please specify when placing your order. Single section pole(s) will be shipped if not specified. **Add 10% to the pricing for two section style flagpoles.**

\*\* Flagpole models available in multi-piece pole(s) only.

### SATIN

MODEL	ITEM #	1-2	3-6	7+
ECXV20	320409	\$2,470	\$2,260	\$2,190
ECV20	320410	2,960	2,830	2,670
ECXV25	320411	2,730	2,580	2,470
ECXAV25	320412	3,040	2,900	2,740
ECV25	320413	4,010	3,810	3,620
ECXAV30	320415	3,380	3,180	3,020
ECLV30	320888	3,540	3,380	3,240
ECAV30	320416	3,910	3,690	3,520
ECV30	320417	4,130	3,960	3,730
ECXV35	320419	4,130	3,960	3,730
ECAV35	320420	4,670	4,410	4,210
ECV35	320421	5,350	5,040	4,780
ECXV40	320422	5,760	5,510	5,170
ECV40	320424	7,100	6,680	6,370

### CLEAR ANODIZED

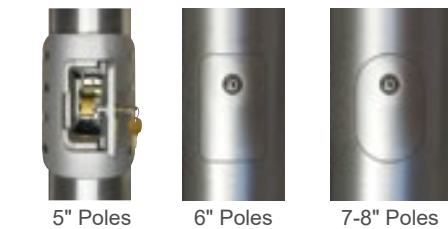
MODEL	ITEM #	1-2	3-6	7+
ECXV20	320425	\$2,900	\$2,790	\$2,680
ECV20	320426	3,540	3,340	3,190
ECXV25	320427	3,240	3,090	2,910
ECXAV25	320428	3,660	3,520	3,320
ECV25	320429	4,600	4,360	4,120
ECXAV30	320431	4,030	3,800	3,630
ECLV30	320889	4,150	3,910	3,760
ECAV30	320432	4,730	4,480	4,210
ECV30	320433	4,970	4,710	4,460
ECXV35	320435	5,040	4,790	4,570
ECAV35	320436	5,640	5,370	5,030
ECV35	320437	6,320	5,960	5,660
ECXV40	320438	6,890	6,560	6,220
ECV40	320440	8,440	7,990	7,590

### BRONZE ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECXV20	320441	\$3,010	\$2,880	\$2,720
ECV20	320442	3,630	3,430	3,220
ECXV25	320443	3,400	3,180	3,030
ECXAV25	320444	3,750	3,590	3,400
ECV25	320445	4,650	4,440	4,180
ECXAV30	320447	4,150	3,970	3,730
ECLV30	320890	4,220	4,040	3,900
ECAV30	320448	4,770	4,530	4,310
ECV30	320449	5,040	4,790	4,570
ECXV35	320451	5,170	4,900	4,650
ECAV35	320452	5,820	5,500	5,200
ECV35	320453	6,510	6,180	5,870
ECXV40	320454	7,090	6,720	6,380
ECV40	320456	8,600	8,190	7,720

### BLACK ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECXV20	320457	\$3,090	\$2,910	\$2,790
ECV20	320458	3,730	3,520	3,280
ECXV25	320459	3,540	3,350	3,100
ECXAV25	320460	3,910	3,700	3,530
ECV25	320461	4,850	4,600	4,350
ECXAV30	320463	4,310	4,080	3,870
ECLV30	320891	4,390	4,200	4,030
ECAV30	320464	5,010	4,760	4,530
ECV30	320465	5,290	5,020	4,770
ECXV35	320467	5,460	5,150	4,870
ECAV35	320468	6,070	5,760	5,480
ECV35	320469	6,770	6,460	6,070
ECXV40	320470	7,380	6,990	6,620
ECV40	320472	8,890	8,480	8,030



♦ 5" diameter poles supplied with a hinged access door and frame unit. 6" and larger diameter poles supplied with a removable flush-mounted access door for added strength.



## SINGLE MAST NAUTICAL SERIES WITH YARDARM

External Halyard Ground Set Cone Tapered Aluminum Flagpoles



### STANDARD ACCESSORIES

- Gold anodized aluminum ball ornament
- Cast aluminum revolving truck w/pulley
- Aluminum yardarm with pulleys & mounting hardware
- 3 lengths of solid braided polyester halyard
- Swivel flag snaps w/vinyl snap covers
- 3 cast aluminum cleats with mounting screws
- Spun aluminum flash collar
- Galvanized steel foundation sleeve



MODEL	EXPOSED HEIGHT	OVERALL LENGTH	# OF SECTIONS	BUTT DIA.	TOP DIA.	WALL	YARDARM LENGTH <sup>♦</sup>	SHIPPING WEIGHT
ECXP20-Y	20'	23'	1	5"	3"	.125	6'	155 lbs.
ECP20-Y	20'	23'	1	5"	3"	.188	6'	173 lbs.
ECXP25-Y	25'	27'	1	5"	3"	.125	6-1/2'	167 lbs.
ECXAP25-Y	25'	27'	1	5"	3"	.156	6-1/2'	185 lbs.
ECP25-Y	25'	27'	1	6"	3-1/2"	.188	6-1/2'	233 lbs.
ECXP30-Y	30'	33'	1 or 2*	5"	3"	.125	8-1/2'	194 lbs.
ECXAP30-Y	30'	33'	1 or 2*	5"	3"	.156	8-1/2'	202 lbs.
ECAP30-Y	30'	33'	1 or 2*	6"	3-1/2"	.156	8-1/2'	254 lbs.
ECP30-Y	30'	33'	1 or 2*	6"	3-1/2"	.188	8-1/2'	257 lbs.
ECSAP35-Y	35'	38-1/2'	1	5"	3"	.188	9-1/2'	262 lbs.
ECXP35-Y	35'	38-1/2'	1 or 2*	6"	3-1/2"	.156	9-1/2'	280 lbs.
ECAP35-Y	35'	38-1/2'	1 or 2*	7"	3-1/2"	.156	9-1/2'	299 lbs.
ECP35-Y	35'	38-1/2'	1 or 2*	7"	3-1/2"	.188	9-1/2'	319 lbs.
ECXP40-Y	40'	44'	2**	7"	3-1/2"	.156	11'	324 lbs.
ECP40-Y	40'	44'	2**	8"	3-1/2"	.188	11'	361 lbs.
ECP45-Y	45'	49-1/2'	2**	8"	3-1/2"	.188	11'	413 lbs.

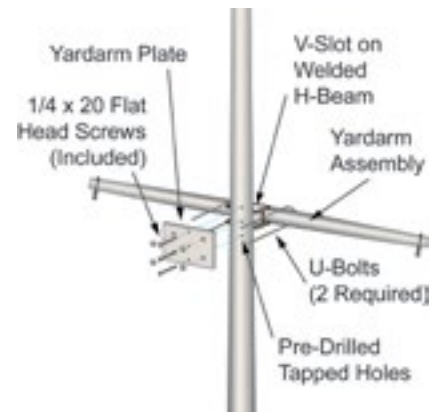
♦ Yardarm Center diameter is 3-1/2", End diameter is 2"

\* Flagpole models available in both one and two section styles; please specify when placing your order. Single section pole(s) will be shipped if not specified.

**Add 10% to the pricing for two section style flagpoles.**

\*\* Flagpole models available in multi-piece pole(s) only.

### YARDARM ASSEMBLY DETAIL



## SINGLE MAST NAUTICAL SERIES WITH YARDARM

External Halyard Ground Set Cone Tapered Aluminum Flagpoles

**NOTE: All pole pricing below includes the yardarm. See [page 114](#) for pricing on yardarms only.**

### SATIN

MODEL	ITEM #	1-2	3-6	7+
ECXP20-Y	320573	\$3,160	\$2,980	\$2,810
ECP20-Y	320574	3,740	3,550	3,370
ECXP25-Y	320575	3,360	3,160	2,950
ECXAP25-Y	320576	3,740	3,520	3,340
ECP25-Y	320577	4,420	4,210	3,960
ECXP30-Y	320578	3,680	3,530	3,310
ECXAP30-Y	320579	4,130	3,920	3,670
ECAP30-Y	320580	4,730	4,550	4,220
ECP30-Y	320581	4,850	4,620	4,310
ECSAP35-Y	320582	4,470	4,270	4,000
ECXP35-Y	320583	4,890	4,670	4,320
ECAP35-Y	320584	5,400	5,130	4,830
ECP35-Y	320585	6,000	5,710	5,400
ECXP40-Y	320586	6,670	6,370	6,000
ECP40-Y	320588	7,500	7,190	6,810
ECP45-Y	320589	8,230	7,840	7,410

### CLEAR ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECXP20-Y	320598	\$3,920	\$3,710	\$3,540
ECP20-Y	320599	4,560	4,360	4,120
ECXP25-Y	320600	4,160	3,990	3,700
ECXAP25-Y	320601	4,500	4,320	4,070
ECP25-Y	320602	5,410	5,100	4,840
ECXP30-Y	320603	4,670	4,430	4,220
ECXAP30-Y	320604	5,060	4,810	4,500
ECAP30-Y	320605	5,800	5,550	5,210
ECP30-Y	320606	5,940	5,660	5,320
ECSAP35-Y	320607	5,590	5,290	4,970
ECXP35-Y	320608	6,110	5,760	5,480
ECAP35-Y	320609	6,720	6,350	5,950
ECP35-Y	320610	7,380	7,050	6,620
ECXP40-Y	320611	8,140	7,790	7,320
ECP40-Y	320613	9,210	8,760	8,250
ECP45-Y	320614	10,010	9,470	8,960

### BRONZE ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECXP20-Y	320623	\$4,010	\$3,810	\$3,620
ECP20-Y	320624	4,660	4,440	4,190
ECXP25-Y	320625	4,280	4,110	3,830
ECXAP25-Y	320626	4,760	4,460	4,270
ECP25-Y	320627	5,510	5,300	4,970
ECXP30-Y	320628	4,810	4,620	4,310
ECXAP30-Y	320629	5,310	5,060	4,790
ECAP30-Y	320630	6,070	5,760	5,480
ECP30-Y	320631	6,210	5,880	5,570
ECSAP35-Y	320632	5,800	5,510	5,230
ECXP35-Y	320633	6,390	6,070	5,670
ECAP35-Y	320634	7,000	6,670	6,310
ECP35-Y	320635	7,720	7,320	6,910
ECXP40-Y	320636	8,580	8,160	7,710
ECP40-Y	320638	9,620	9,150	8,650
ECP45-Y	320639	10,450	9,900	9,380

### BLACK ANODIZED

MODEL	ITEM #	1-2	3-6	7+
ECXP20-Y	320648	\$4,210	\$4,010	\$3,750
ECP20-Y	320649	4,870	4,660	4,380
ECXP25-Y	320650	4,560	4,290	4,030
ECXAP25-Y	320651	4,920	4,670	4,380
ECP25-Y	320652	5,880	5,570	5,270
ECXP30-Y	320653	5,150	4,910	4,620
ECXAP30-Y	320654	5,550	5,270	4,950
ECAP30-Y	320655	6,350	6,040	5,660
ECP30-Y	320656	6,570	6,240	5,880
ECSAP35-Y	320657	6,110	5,790	5,490
ECXP35-Y	320658	6,720	6,410	5,960
ECAP35-Y	320659	7,340	7,000	6,620
ECP35-Y	320660	8,090	7,650	7,250
ECXP40-Y	320661	8,960	8,550	8,030
ECP40-Y	320663	10,140	9,620	9,120
ECP45-Y	320664	11,010	10,470	9,890

# OUTDOOR FLAGPOLES | Nautical Yardarms & Gaffs

## ALUMINUM YARDARMS

Cone Tapered For Single Mast Nautical Poles



Each yardarm is supplied with end pulleys, (2) lengths of solid braided polyester halyard with swivel flag snaps & snap covers, (2) 9" cast aluminum cleats with mounting screws plus all mounting hardware for a standard installation.

MODEL	FOR POLE HEIGHT	OVERALL LENGTH	CENTER DIA.	DIA. AT ENDS	SHIPPING WEIGHT
Y60	20'	6'	3-1/2"	2"	31 lbs.
Y65	25'	6-1/2'	3-1/2"	2"	33 lbs.
Y85	30'	8-1/2'	3-1/2"	2"	40 lbs.
Y95	35'	9-1/2'	3-1/2"	2"	43 lbs.
Y110	40'/45'	11'	3-1/2"	2"	52 lbs.

## SATIN

MODEL	ITEM #	1-2	3-6	7+
Y60	320773	\$1,300	\$1,210	\$1,150
Y65	320774	1,360	1,300	1,190
Y85	320775	1,460	1,390	1,300
Y95	320776	1,470	1,430	1,330
Y110	320777	1,620	1,550	1,460

## CLEAR ANODIZED

MODEL	ITEM #	1-2	3-6	7+
Y60	320782	\$1,580	\$1,490	\$1,420
Y65	320783	1,650	1,580	1,470
Y85	320784	1,840	1,700	1,620
Y95	320785	1,930	1,770	1,650
Y110	320786	2,070	1,980	1,880

## BRONZE ANODIZED

MODEL	ITEM #	1-2	3-6	7+
Y60	320791	\$1,590	\$1,510	\$1,460
Y65	320792	1,700	1,640	1,550
Y85	320793	1,960	1,880	1,730
Y95	320794	2,060	1,960	1,840
Y110	320795	2,290	2,170	2,040

## BLACK ANODIZED

MODEL	ITEM #	1-2	3-6	7+
Y60	320800	\$1,670	\$1,620	\$1,510
Y65	320801	1,840	1,700	1,620
Y85	320802	2,060	1,960	1,840
Y95	320803	2,130	2,040	1,940
Y110	320804	2,400	2,290	2,150

## ALUMINUM GAFFS

Cone Tapered For Single Mast Nautical Poles



Each gaff is supplied with an end pulley, (1) length of solid braided polyester halyard with swivel flag snaps & snap covers, (1) 9" cast aluminum cleat with mounting screws plus all mounting hardware for a standard installation.

MODEL	FOR POLE HEIGHT	OVERALL LENGTH	CENTER DIA.	DIA. AT ENDS	SHIPPING WEIGHT
G50	20'	5'	3-1/2"	2"	30 lbs.
G56	25'	5-1/2'	3-1/2"	2"	30 lbs.
G66	30'	6-1/2'	3-1/2"	2"	33 lbs.
G76	35'	7-1/2'	3-1/2"	2-3/8"	37 lbs.
G90	40'/45'	9'	3-1/2"	2-3/8"	42 lbs.

## SATIN

MODEL	ITEM #	1-2	3-6	7+
G50	320809	\$850	\$820	\$790
G56	320810	910	850	800
G66	320811	980	920	850
G76	320812	1,030	990	910
G90	320813	1,090	1,030	920

## CLEAR ANODIZED

MODEL	ITEM #	1-2	3-6	7+
G50	320818	\$1,120	\$1,050	\$950
G56	320819	1,190	1,160	1,080
G66	320820	1,270	1,200	1,160
G76	320821	1,330	1,300	1,200
G90	320822	1,420	1,330	1,260

## BRONZE ANODIZED

MODEL	ITEM #	1-2	3-6	7+
G50	320827	\$1,180	\$1,140	\$1,050
G56	320828	1,270	1,200	1,160
G66	320829	1,330	1,270	1,200
G76	320830	1,500	1,460	1,350
G90	320831	1,640	1,560	1,460

## BLACK ANODIZED

MODEL	ITEM #	1-2	3-6	7+
G50	320836	\$1,230	\$1,180	\$1,120
G56	320837	1,330	1,270	1,200
G66	320838	1,430	1,350	1,270
G76	320839	1,650	1,580	1,470
G90	320840	1,770	1,660	1,580