



American Made ★ Employee Owned

& BAARTOL COMPANY
A DIVISION OF EDER FLAG MANUFACTURING CO., INC.

FLAGPOLE CATALOG



**YOUR
COMPLETE
SOURCE
FOR ALL
YOUR
FLAGPOLE
NEEDS**



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ABOUT EDER FLAG

HISTORY

In the nation's heartland Eder Flag Manufacturing Co. has built a legacy of manufacturing superior products known for craftsmanship, quality and durability. A little business launched more than **125 years** ago in southeastern Wisconsin has grown to become America's finest manufacturer of both flags and flagpoles.

In 2013, Eder Flag Manufacturing purchased the assets of The Baartol Company, a leading specialty flagpole maker in Kenton, Ohio. Integrating these assets allows us to provide an even broader array of product offerings and strengthens our expertise in the engineering and design of these products.



In 2016, company leadership finalized steps to make Eder Flag an employee-owned company. The new ownership structure ensures loyalty to the employees who helped build and continue to uphold the quality standards of Eder Flag.

Our commitment to our customers is to provide the most comprehensive inventory of quality products, expertise and support to ensure you get exactly what you need when you need it to complete your project.



HEADQUARTERS

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Main Phone: (414) 764-3522
Stock Sales Fax: (414) 764-1039
Flagpole Estimating Fax: (414) 768-7094
Email: sales@ederflag.com



DISTRIBUTION CENTER

Eder Flag South
349 Zell Drive
Orlando, Florida 32824
Toll Free: (800) 940-3337
Main Phone: (407) 850-5656
Fax: (407) 850-5567

YOUR SOLUTION EXPERTS

Whether your job requires a single flagpole, an arrangement of multiple poles or wall mounted flagpoles, Eder Flag has a wide selection of styles, sizes and colors for you to choose from to meet your needs. Special requirements? No problem - we can work with you to customize the flagpole your job demands.

SERVICE

Eder Flag is committed to providing superior service to support each of our customers with technical experts available to assist you. Our customer service is unparalleled in the industry. We understand the importance of meeting your schedule and we will work with you to meet or exceed your expectations.

MANUFACTURING

Eder Flag's flagpole shafts are manufactured and precision fabricated in the United States from new, seamless 6063-T6 aluminum tubing with tensile strength not less than 30,000psi and a yield point of 25,000psi. The conical portion tapers approximately 1" in every 5-1/2 feet.

On site welding and fabrication is a specialty for which we have become world renowned. Creative design and conscientious workmanship are our benchmarks to create the flagpoles, brackets and accessories you need.



INVENTORY

Eder Flag's inventory of flagpole shafts and replacement parts is unsurpassed. We carry an inventory of over 24,000 items that are flagpole and flag related.

Poles with overall lengths of less than 38' 6" can be shipped in one piece. Select 30' and 35' poles may be available in two piece sections upon request for difficult to get to shipping areas. Longer lengths are shipped in sections and will be factory fitted with a self-aligning sleeve which requires no field welding. Upon proper assembly a hair-line joint will occur. All poles are spiral wrapped with protective paper and shipped in a hard fiber tube.



Flags and accessories are the other side of our business. In addition to our large inventory of flagpoles, we also offer a complete line of U.S., State and International Flags. Our custom flag department can create beautifully appliquéd or digitally printed flags with company logos or designs to your specifications. We are the nation's most complete supplier to the Flag and Flagpole Industry. Contact us to request a full line catalog.

Shop drawings and installation instructions can be found at www.ederflag.com. All foundation dimensions listed in the shop drawings are intended for general guidelines only in good, stiff, firm, natural, undisturbed soil. If these conditions are not met, please consult a local engineer.

FLAGPOLE FINISHES

STANDARD ANODIZED FINISHES

All flagpole shafts are highly polished with fine grain aluminum oxide cloth resulting in a high quality, deep satin luster finish. This finish represents the ultimate in architectural finishes for aluminum flagpoles and is the most specified and used finish in the flagpole industry. The elegant soft sheen remains maintenance free and does not flake or peel. Anodizing the flagpole offers increased protection from the elements, especially against seaside conditions and corrosion.

The following anodized finishes are available as standard colors. Note: For bronze, dark bronze #313 is supplied unless otherwise specified.



SATIN



CLEAR



BRONZE #311
(LIGHT)



BRONZE #312
(MEDIUM)



BRONZE #313
(DARK)



BLACK
(#335)



CUSTOM FINISHES

We offer alternate finishes and custom powder coat paint colors which may be more suitable for particular job conditions. Please contact us and provide specific RAL # for a prompt quotation.



SAFETY YELLOW



WHITE



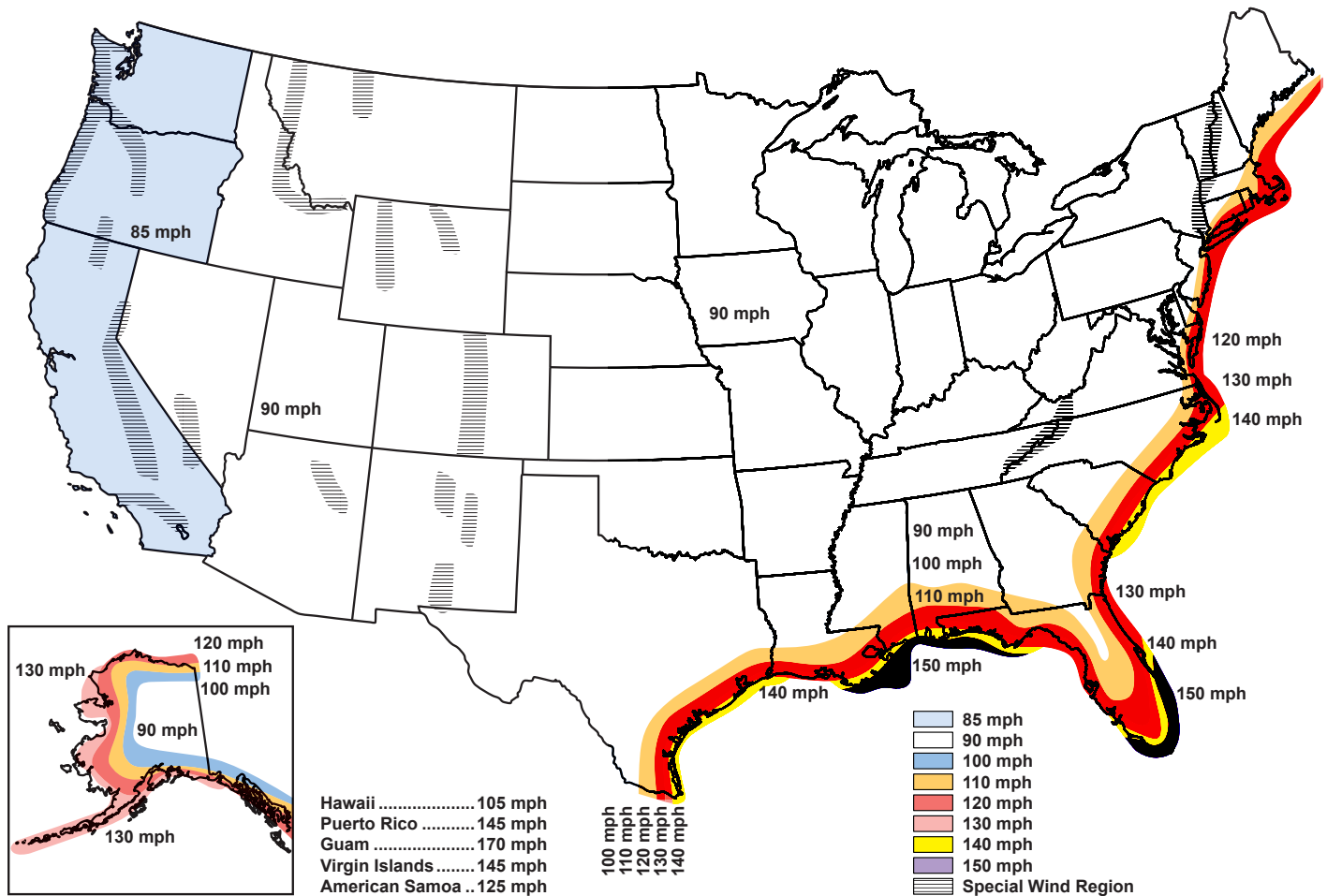
GREEN

ADDITIONAL FINISHES AVAILABLE

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.

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.

EXTERNAL HALYARD FLAGPOLES

EXTERNAL HALYARD FLAGPOLES

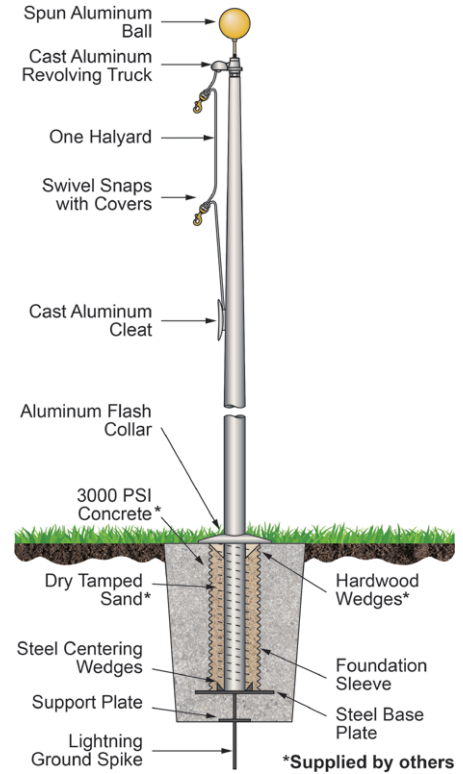
External Halyard Ground Set Cone Tapered Aluminum Flagpoles • Standard finishes available: Satin, Clear, Bronze #313, Black



EXTERNAL HALYARD FLAGPOLES STANDARD ACCESSORIES

- Gold Anodized Aluminum Ball Ornament
- Cast Aluminum Revolving Truck w/Pulley †
- Solid Braided Polypropylene Halyard
- Swivel Flag Snaps w/Vinyl Snap Covers
- Cast Aluminum Cleat w/Mounting Screws
- Spun Aluminum Flash Collar
- Galvanized Steel Foundation Sleeve

† ECSA20 & ECSA25 poles have a stationary truck as standard and flagpoles are not supplied with a plate support or centering wedges.



	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
20'	ECSA20	20'	22'	1	4"	2-3/8"	.125	152 MPH	110 MPH	3' x 5'	92 lbs.
	ECX20	20'	23'	1	5"	3"	.125	255 MPH	120+ MPH	3' x 5'	119 lbs.
	EC20	20'	23'	1	5"	3"	.188	315 MPH	120+ MPH	3' x 5'	122 lbs.
25'	ECSA25	25'	27'	1	4"	2-3/8"	.125	113 MPH	88 MPH	4' x 6'	112 lbs.
	ECX25	25'	27'	1	5"	3"	.125	137 MPH	105 MPH	4' x 6'	129 lbs.
	ECXA25	25'	27'	1	5"	3"	.156	183 MPH	120 MPH	4' x 6'	134 lbs.
	EC25	25'	27'	1	6"	3-1/2"	.188	250 MPH	120+ MPH	4' x 6'	181 lbs.
30'	ECX30	30'	33'	1 or 2*	5"	3"	.125	104 MPH	85 MPH	5' x 8'	154 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'	214 lbs.
	EC30	30'	33'	1 or 2*	6"	3-1/2"	.188	211 MPH	120+ MPH	5' x 8'	217 lbs.
35'	ECSA35	35'	38-1/2'	1	5"	3"	.188	104 MPH	86 MPH	6' x 10'	219 lbs.
	ECX35	35'	38-1/2'	1 or 2*	6"	3-1/2"	.156	119 MPH	91 MPH	6' x 10'	237 lbs.
	ECA35	35'	38-1/2'	1 or 2*	7"	3-1/2"	.156	175 MPH	114 MPH	6' x 10'	251 lbs.
	EC35	35'	38-1/2'	1 or 2*	7"	3-1/2"	.188	202 MPH	120 MPH	6' x 10'	271 lbs.
40'	ECX40	40'	44'	2**	7"	3-1/2"	.156	122 MPH	91 MPH	8' x 12'	272 lbs.
	ECA40	40'	44'	2**	8"	3-1/2"	.156	171 MPH	110 MPH	8' x 12'	298 lbs.
	EC40	40'	44'	2**	8"	3-1/2"	.188	203 MPH	120 MPH	8' x 12'	309 lbs.
45'	EC45	45'	49-1/2'	2**	8"	3-1/2"	.188	166 MPH	100 MPH	8' x 12'	361 lbs.
50'	ECX50	50'	55'	3**	8"	3-1/2"	.188	118 MPH	85 MPH	10' x 15'	433 lbs.
	EC50	50'	55'	3**	10"	4"	.188	185 MPH	115 MPH	10' x 15'	513 lbs.
60'	ECX60	60'	66'	3**	10"	4"	.188	122 MPH	90 MPH	12' x 18'	665 lbs.
	ECXA60	60'	66'	3**	10"	4"	.250	150 MPH	106 MPH	12' x 18'	754 lbs.
	EC60	60'	66'	3**	12"	4"	.250	213 MPH	120 MPH	12' x 18'	833 lbs.
70'	ECX70	70'	77'	3**	10"	4"	.312	127 MPH	91 MPH	15' x 25'	1032 lbs.
	EC70	70'	77'	3**	12"	4"	.250	169 MPH	105 MPH	15' x 25'	978 lbs.
80'	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.

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

EXTERNAL HALYARD FLAGPOLES: HURRICANE SERIES

HURRICANE SERIES

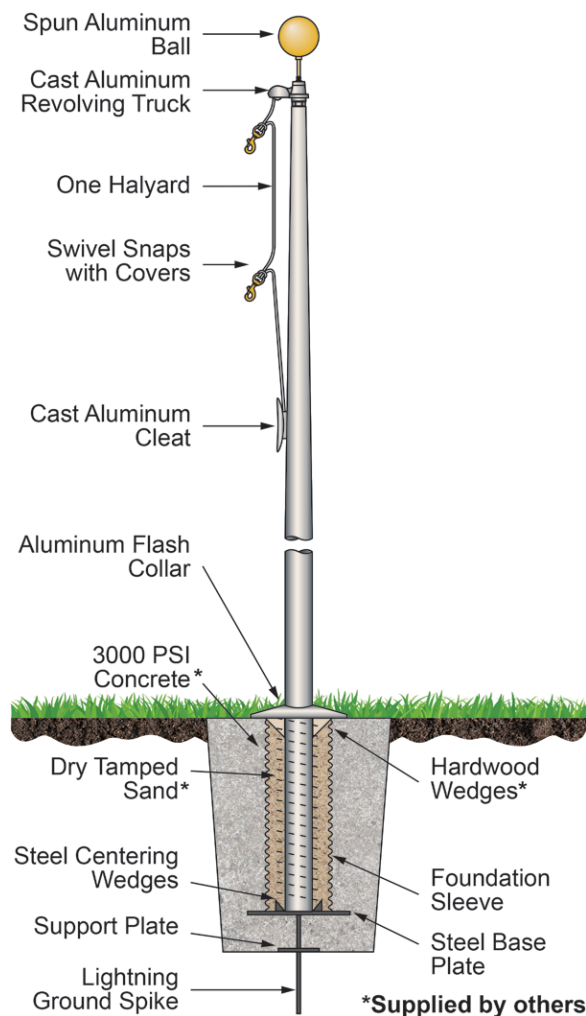
External Halyard Ground Set Cone Tapered Aluminum Flagpoles • Standard finishes available: Satin, Clear, Bronze #313, Black

Hurricane Series poles have an increased butt diameter and wall thickness that makes them better suited for coastal and high wind areas.



STANDARD ACCESSORIES

- Gold Anodized Aluminum Ball Ornament
- Cast Aluminum Revolving Truck w/ Pulley
- Solid Braided Polypropylene Halyard
- Swivel Flag Snaps w/ Vinyl Snap Covers
- Cast Aluminum Cleat w/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
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25' FLAGPOLE

ECH25	25'	27'	1	6"	3-1/2"	.250	255 MPH	150+ MPH	4' x 6'	233 lbs.
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30' FLAGPOLE

ECH30	30'	33'	2**	6"	3-1/2"	.250	241 MPH	150+ MPH	5' x 8'	322 lbs.
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35' FLAGPOLE

ECH35	35'	38-1/2'	2**	8"	3-1/2"	.250	255 MPH	150 MPH	6' x 10'	351 lbs.
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40' FLAGPOLE

ECH40	40'	44'	2**	8"	3-1/2"	.250	231 MPH	150 MPH	8' x 12'	399 lbs.
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50' FLAGPOLE

ECH50	50'	55'	3**	10"	4"	.312	230 MPH	150 MPH	10' x 15'	625 lbs.
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** Flagpole models available in multi-piece pole(s) only.

INTERNAL HALYARD FLAGPOLES



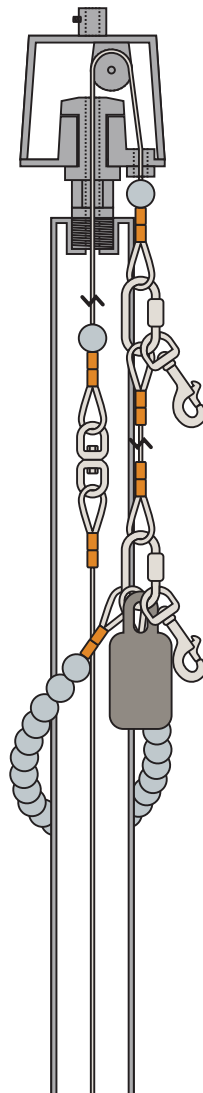
DELUXE IH SERIES

Internal Halyard Ground Set Cone Tapered Aluminum Flagpoles

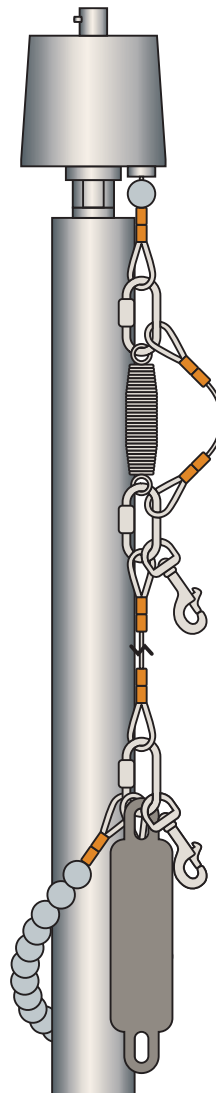
STANDARD ACCESSORIES

- Cast Aluminum Revolving Truck with enclosed stainless steel bearings and raceway
- Stainless Steel Cable Assembly
- Deluxe Flag Arrangement
- Retainer Ring and Counterweight
- Exclusive M-Winch System
- Spun Aluminum Flash Collar
- Galvanized Steel Foundation Sleeve
- See page 25 for optional ornament selections

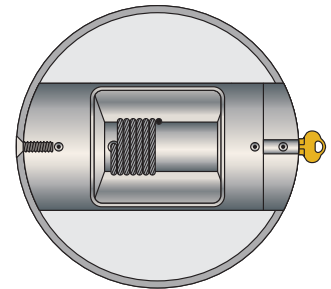
20' THROUGH 35'
FLAGPOLES



40' THROUGH 80'
FLAGPOLES



M-WINCH DETAIL



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



DELUXE IH SERIES

Internal Halyard Ground Set Cone Tapered Aluminum Flagpoles • Standard finishes available: Satin, Clear, Bronze #313, Black

These internal halyard flagpoles contain our exclusive M-Winch mounted inside the flagpole shaft, operable only with a removable crank handle. As the stainless steel cable unwinds from the M-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 plastisol, attached to the retainer ring, allows the halyard to be lowered for fastening or removing the flag. The halyard is then raised completely for added security.

Our maintenance-free M-Winch is gearless and self-locking at any point, eliminating the need for a separate brake. This direct drive M-Winch provides rapid raising and lowering of the flag with little effort. The design does not require any welding, thus avoiding discoloration when an anodized finish is desired. No monthly lubrication is needed. This M-Winch system can be easily adapted to existing on-site flagpoles.

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
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20' FLAGPOLES

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.

25' FLAGPOLES

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.

30' FLAGPOLES

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.

35' FLAGPOLES

ECXA35IH	35'	38-1/2'	1	5"	3"	.188	104 MPH	86 MPH	6' x 10'	241 lbs.
ECX35IH	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.

40' FLAGPOLES

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.

45' FLAGPOLE

EC45IH	45'	49-1/2'	2**	8"	3-1/2"	.188	166 MPH	100 MPH	8' x 12'	371 lbs.
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50' FLAGPOLES

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.

60' FLAGPOLES

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.

70' FLAGPOLES

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.

80' FLAGPOLE

EC80IH	80'	88'	3**	12"	4"	.375	174 MPH	105 MPH	20' x 30'	1367 lbs.
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* 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.

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

INTERNAL HALYARD FLAGPOLES : HURRICANE SERIES

HURRICANE SERIES

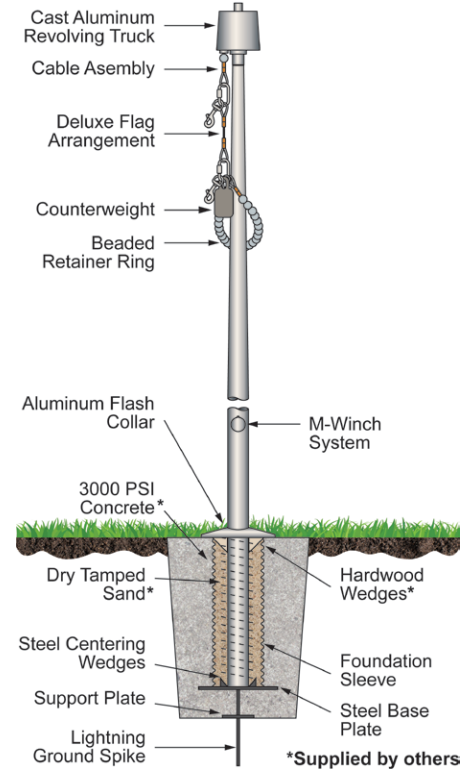
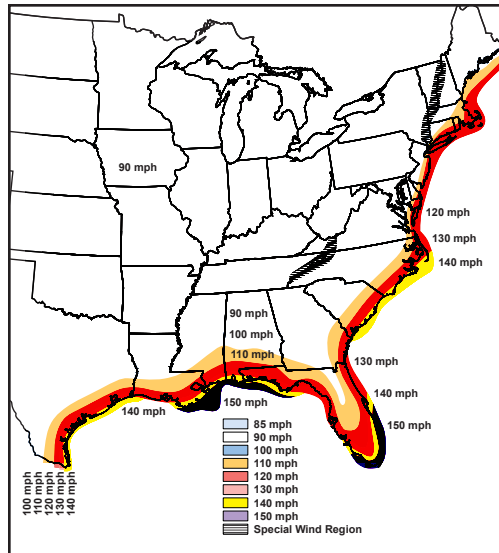
Internal Halyard Ground Set Cone Tapered Aluminum Flagpoles • Standard finishes available: Satin, Clear, Bronze #313, Black

The increased butt diameter and wall thickness of these flagpole shafts provide owners with the wind speed ratings necessary for high wind and coastal areas.

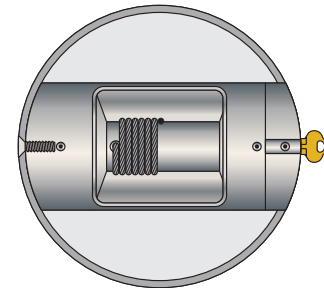


STANDARD ACCESSORIES

- Cast Aluminum Revolving Truck with enclosed stainless steel bearings and raceway
- Stainless Steel Cable Assembly
- Deluxe Flag Arrangement
- Retainer Ring and Counterweight
- Exclusive M-Winch System
- Spun Aluminum Flash Collar
- Galvanized Steel Foundation Sleeve
- See page 25 for optional ornament selections



M-WINCH DETAIL



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
25' FLAGPOLE										
ECH25IH	25'	27'	1	6"	3-1/2"	.250	255 MPH	150+ MPH	4' x 6'	233 lbs.
30' FLAGPOLE										
ECH30IH	30'	33'	2**	6"	3-1/2"	.250	241 MPH	150+ MPH	5' x 8'	322 lbs.
35' FLAGPOLE										
ECH35IH	35'	38-1/2'	2**	8"	3-1/2"	.250	255 MPH	150 MPH	6' x 10'	351 lbs.
40' FLAGPOLE										
ECH40IH	40'	44'	2**	8"	3-1/2"	.250	231 MPH	150 MPH	8' x 12'	399 lbs.
50' FLAGPOLE										
ECH50IH	50'	55'	3**	10"	4"	.312	230 MPH	150 MPH	10' x 15'	625 lbs.

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

INTERNAL HALYARD FLAGPOLES: VANGUARD SERIES

VANGUARD SERIES

Internal Halyard Ground Set Cone Tapered Aluminum Flagpoles • Standard finishes available: Satin, Clear, Bronze #313, Black

The Vanguard series provides an economical alternative to deluxe internal halyard systems.

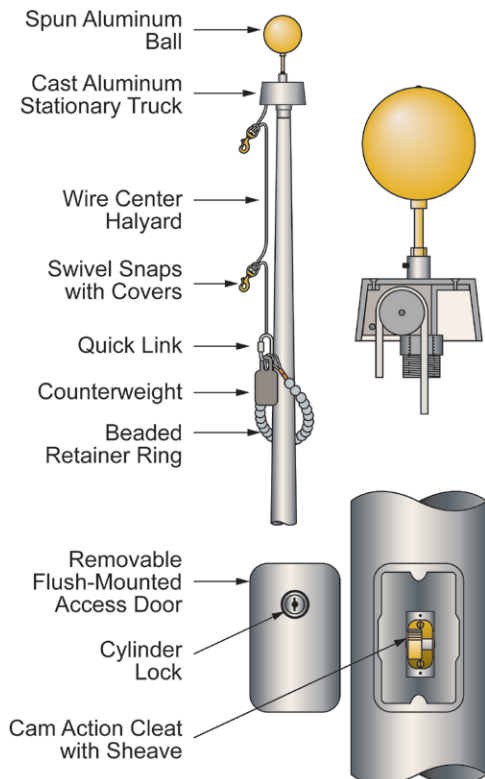
STANDARD ACCESSORIES

- Gold Anodized Aluminum Ball Ornament
- Cast Aluminum Stationary Truck (Optional: Revolving Truck Available)
- 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.
ECXV30	30'	33'	1 or 2*	5"	3"	.125	110 MPH	75 MPH	5' x 8'	172 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.
ECSAV35	35'	38-1/2'	1	5"	3"	.188	104 MPH	86 MPH	6' x 10'	229 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.
ECAV40	40'	44'	2**	8"	3-1/2"	.156	171 MPH	110 MPH	8' x 12'	309 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.

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



ACCESS DOOR & FRAMES



- 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.

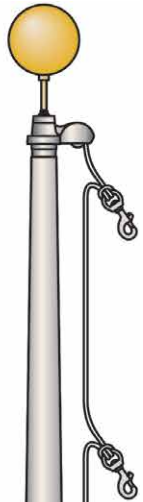
CAM ACTION CLEAT



VERTICAL WALL MOUNT SERIES

External Halyard Cone Tapered Aluminum Flagpoles • Standard finishes available: Satin, Clear, Bronze #313, Black

BRACKETS FOR 2-3/8" THROUGH 5" POLES



BRACKETS FOR 6" AND 6-1/2" POLES



BRACKETS FOR 7", 8" OR 10" POLES*

*Available upon request



Recommended minimum spread between brackets: 10% of the length of the pole

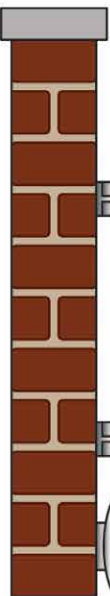


Illustration depicting 2-3/8"-5" butt dia. poles

STANDARD ACCESSORIES

- Gold Anodized Aluminum Ball Ornament
- Cast Aluminum Revolving Truck on 5" & 6" diameter poles; all others have a Stationary Truck as standard
- Solid Braided Polypropylene Halyard
- Cast Aluminum Cleat w/Mounting Screws
- 3-1/2" thru 6" diameter poles have Swivel Flag Snaps w/Vinyl Covers; all others have Nylon Flag Snaps
- Cast Aluminum Mounting Brackets.
- If Thru Wall Bolts are required, please advise length of bolt needed.

Wind load requirements are based upon flag size and mounted pole elevation.

MODEL	OVERALL LENGTH	# OF SECTIONS	BUTT DIA.	TOP DIA.	WALL	REC. FLAG SIZE	SHIPPING WEIGHT
EVWM8	8'	1	2-3/8"	1-7/8"	.140	3' x 5'	31 lbs.
EVWM10	10'	1	2-3/8"	1-7/8"	.140	3' x 5'	35 lbs.
EVWM12	12'	1	2-3/8"	1-7/8"	.140	3' x 5'	38 lbs.
EVWM14	14'	1	2-3/8"	1-7/8"	.140	3' x 5'	42 lbs.
EVWM17	17'	1	2-3/8"	1-7/8"	.140	3' x 5'	47 lbs.
EVWM20	20'	1	2-3/8"	1-7/8"	.140	3' x 5'	52 lbs.
EVWM22	22'	1	2-3/8"	1-7/8"	.140	3' x 5'	56 lbs.

EVWS8	8'	1	3"	1-7/8"	.125	3' x 5'	31 lbs.
EVWS10	10'	1	3"	1-7/8"	.125	3' x 5'	34 lbs.
EVWS12	12'	1	3"	1-7/8"	.125	3' x 5'	38 lbs.
EVWS14	14'	1	3"	1-7/8"	.125	3' x 5'	42 lbs.
EVWS17	17'	1	3"	1-7/8"	.125	3' x 5'	48 lbs.
EVWS20	20'	1	3"	1-7/8"	.125	3' x 5'	53 lbs.
EVWS22	22'	1	3"	1-7/8"	.125	3' x 5'	57 lbs.
EVWS25	25'	1	3"	1-7/8"	.125	3' x 5'	63 lbs.
EVWS27	27'	1	3"	1-7/8"	.125	3' x 5'	67 lbs.

EVW12	12'	1	3-1/2"	2-3/8"	.125	3' x 5'	44 lbs.
EVW16	16'	1	3-1/2"	2-3/8"	.125	3' x 5'	52 lbs.
EVW20	20'	1	3-1/2"	2-3/8"	.125	3' x 5'	59 lbs.
EVW22	22'	1	3-1/2"	2-3/8"	.125	3' x 5'	66 lbs.
EVW25	25'	1	3-1/2"	2-3/8"	.125	4' x 6'	75 lbs.
EVW27	27'	1	3-1/2"	2-3/8"	.125	4' x 6'	77 lbs.

EVWAF16	16'	1	4"	2-3/8"	.125	3' x 5'	81 lbs.
EVWAF20	20'	1	4"	2-3/8"	.125	3' x 5'	94 lbs.
EVWAF22	22'	1	4"	2-3/8"	.125	3' x 5'	101 lbs.
EVWAF25	25'	1	4"	2-3/8"	.125	4' x 6'	110 lbs.
EVWAF27	27'	1	4"	2-3/8"	.125	4' x 6'	117 lbs.
EVWAF30	30'	1 or 2*	4"	2-3/8"	.125	5' x 8'	178 lbs.

LVW20	20'	1	5"	3"	.125	4' x 6'	97 lbs.
LVWC20	20'	1	5"	3"	.188	4' x 6'	99 lbs.
LVW23	23'	1	5"	3"	.125	4' x 6'	108 lbs.
LVWC23	23'	1	5"	3"	.188	4' x 6'	111 lbs.
LVW25	25'	1	5"	3"	.125	4' x 6'	115 lbs.
LVWA25	25'	1	5"	3"	.156	4' x 6'	131 lbs.
LVW27	27'	1	5"	3"	.125	4' x 6'	123 lbs.
LVWA27	27'	1	5"	3"	.156	4' x 6'	139 lbs.

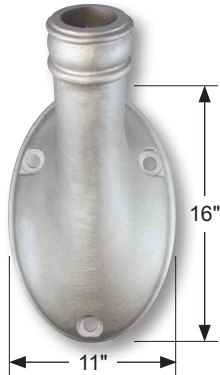
LVW30	30'	1 or 2*	6"	3-1/2"	.156	5' x 8'	178 lbs.
LVWC30	30'	1 or 2*	6"	3-1/2"	.188	5' x 8'	230 lbs.
LVW33	33'	1 or 2*	6"	3-1/2"	.156	5' x 8'	192 lbs.
LVWC33	33'	1 or 2*	6"	3-1/2"	.188	5' x 8'	250 lbs.
LVW35	35'	1 or 2*	6"	3-1/2"	.156	6' x 10'	201 lbs.

* 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.

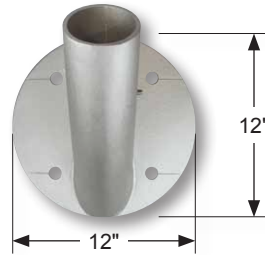
OUTRIGGER WALL MOUNT SERIES

External Halyard Aluminum Flagpoles • Standard finishes available: Satin, Clear, Bronze #313, Black

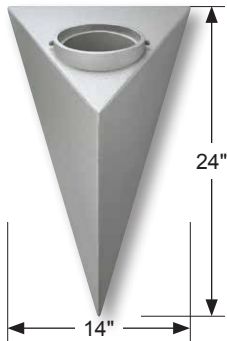
ECOM
2-3/8" Diameter Poles Only
45° Angle Only



ECOST & ECOS
3" Diameter Poles Only
45° Angle Only

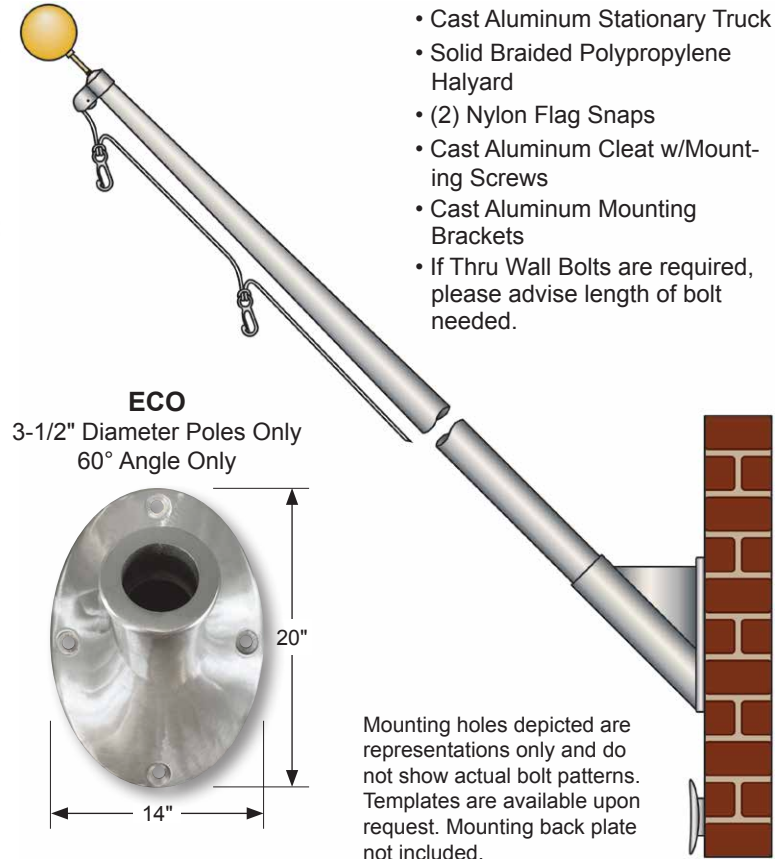


EDO
3" Diameter Poles Only*
30° Angle Only



*Brackets for larger diameter poles available upon request

ESO
3" Diameter Poles Only
45° Angle Only



Mounting holes depicted are representations only and do not show actual bolt patterns. Templates are available upon request. Mounting back plate not included.

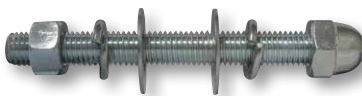
STANDARD ACCESSORIES

- Gold Anodized Aluminum Ball Ornament
- Cast Aluminum Stationary Truck
- Solid Braided Polypropylene Halyard
- (2) Nylon Flag Snaps
- Cast Aluminum Cleat w/Mounting Screws
- Cast Aluminum Mounting Brackets
- If Thru Wall Bolts are required, please advise length of bolt needed.

THRU WALL BOLTS

For Mounting Outrigger & Vertical Wall Mount Brackets

Zinc plated steel complete with one acorn nut, one hex nut, two washers & two lock washers.



ITEM #	SIZE	LBS
380048	5/8" x 6"	.75
380049	5/8" x 12"	1.2
380050	5/8" x 18"	1.7
380051	5/8" x 24"	2.1
380052	5/8" x 30"	2.5
380053	5/8" x 36"	2.9

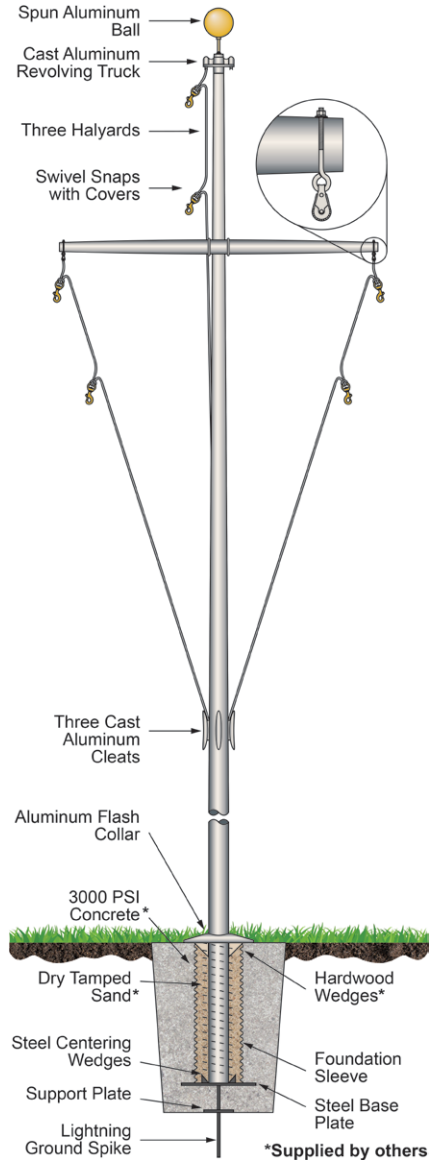
All Models are Cone Tapered Except the ECOS Models which are Non-Tapering Poles

MODEL	OVERALL LENGTH	CONE TAPERED	NON-TAPERED	BUTT DIA.	TOP DIA.	WALL	SUGGESTED FLAG SIZE	SHIPPING WEIGHT
ECOM8	8'	•		2-3/8"	1-7/8"	.140	3' x 5'	51 lbs.
ECOM10	10'	•		2-3/8"	1-7/8"	.140	3' x 5'	58 lbs.
ECOM12	12'	•		2-3/8"	1-7/8"	.140	3' x 5'	58 lbs.
ECOM14	14'	•		2-3/8"	1-7/8"	.140	3' x 5'	62 lbs.
ECOM16	16'	•		2-3/8"	1-7/8"	.140	3' x 5'	65 lbs.
ECOST8	8'	•		3"	1-7/8"	.125	3' x 5'	36 lbs.
ECOST10	10'	•		3"	1-7/8"	.125	3' x 5'	39 lbs.
ECOS8	8'		•	3"	3"	.125	3' x 5'	35 lbs.
ECOS10	10'		•	3"	3"	.125	3' x 5'	38 lbs.
EDO8	8'	•		3"	1-7/8"	.125	3' x 5'	25 lbs.
EDO10	10'	•		3"	1-7/8"	.125	3' x 5'	30 lbs.
EDO12	12'	•		3"	1-7/8"	.125	3' x 5'	35 lbs.
ESO8	8'	•		3"	1-7/8"	.125	3' x 5'	25 lbs.
ESO10	10'	•		3"	1-7/8"	.125	3' x 5'	30 lbs.
ESO12	12'	•		3"	1-7/8"	.125	3' x 5'	35 lbs.
ECO8	8'	•		3-1/2"	2-3/8"	.125	3' x 5'	54 lbs.
ECO10	10'	•		3-1/2"	2-3/8"	.125	3' x 5'	58 lbs.
ECO12	12'	•		3-1/2"	2-3/8"	.125	3' x 5'	62 lbs.
ECO16	16'	•		3-1/2"	2-3/8"	.125	3' x 5'	71 lbs.
ECO20**	20'	•		3-1/2"	2-3/8"	.125	4' x 6'	80 lbs.

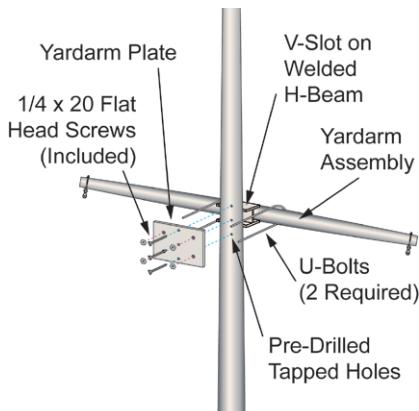
**Suggested to use guy wires

SINGLE MAST NAUTICAL SERIES WITH YARDARM

External Halyard Ground Set Cone Tapered Aluminum Flagpoles • Standard finishes available: Satin, Clear, Bronze #313, Black



YARDARM ASSEMBLY DETAIL



STANDARD ACCESSORIES

- Gold Anodized Aluminum Ball Ornament
- Cast Aluminum Revolving Truck w/Pulley
- Aluminum Yardarm w/Pulleys & Mounting Hardware
- 3 Lengths of Solid Braided Polypropylene Halyard
- Swivel Flag Snaps w/Vinyl Snap Covers
- 3 Cast Aluminum Cleats w/ Mounting Screws
- Spun Aluminum Flash Collar
- Galvanized Steel Foundation Sleeve



MODEL	EXPOSED HEIGHT	OVERALL LENGTH	# OF SECTIONS	BUTT DIA.	TOP DIA.	WALL	YARDARM LENGTH*	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.
ECAP40-Y	40'	44'	2**	8"	3-1/2"	.156	11'	350 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.
ECXP50-Y	50'	55'	3**	8"	3-1/2"	.188	13'	492 lbs.
ECP50-Y	50'	55'	3**	10"	4"	.188	13'	572 lbs.
ECXP60-Y	60'	66'	3**	10"	4"	.188	14'	735 lbs.
ECXAP60-Y	60'	66'	3**	10"	4"	.250	14'	824 lbs.
ECP60-Y	60'	66'	3**	12"	4"	.250	14'	903 lbs.
ECXP70-Y	70'	77'	3**	10"	4"	.312	16'	1107 lbs.
ECP70-Y	70'	77'	3**	12"	4"	.250	16'	1053 lbs.
ECP80-Y	80'	88'	3**	12"	4"	.375	18'	1442 lbs.

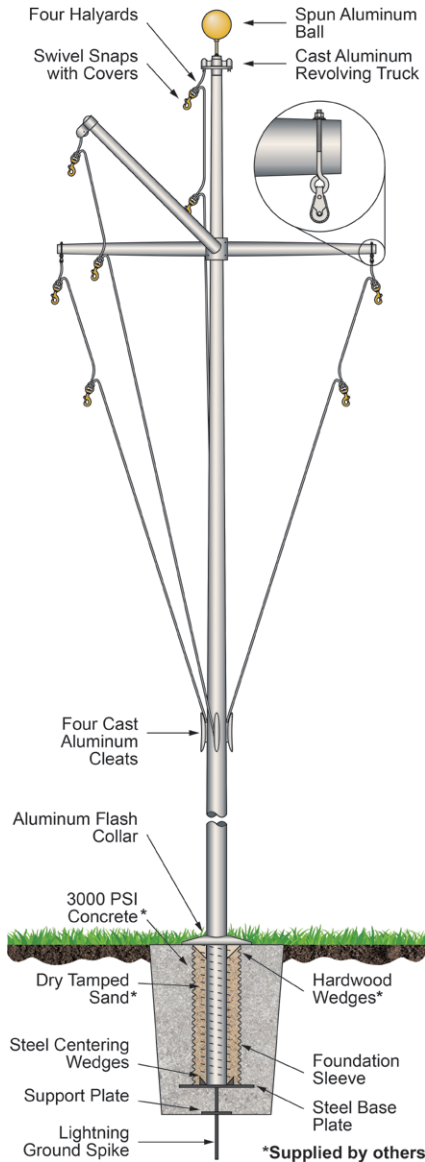
* Yardarm Center diameter is 3-1/2", End diameter is 2"

* 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.

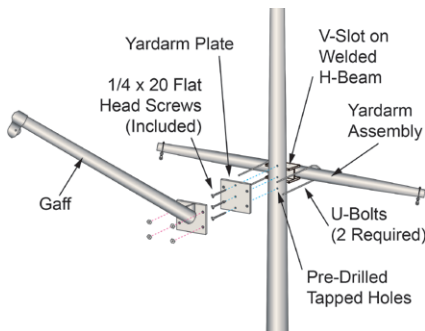
** Flagpole models available in multi-piece pole(s) only.

SINGLE MAST NAUTICAL SERIES WITH YARDARM & GAFF

External Halyard Ground Set Cone Tapered Aluminum Flagpoles • Standard finishes available: Satin, Clear, Bronze #313, Black



YARDARM & GAFF ASSEMBLY DETAIL



STANDARD ACCESSORIES

- Gold Anodized Aluminum Ball Ornament
- Cast Aluminum Revolving Truck w/Pulley
- Aluminum Yardarm & Gaff w/ Pulleys & Mounting Hardware
- 4 Lengths of Solid Braided Polypropylene Halyard
- Swivel Flag Snaps w/Vinyl Snap Covers
- 4 Cast Aluminum Cleats w/ Mounting Screws
- Spun Aluminum Flash Collar
- Galvanized Steel Foundation Sleeve



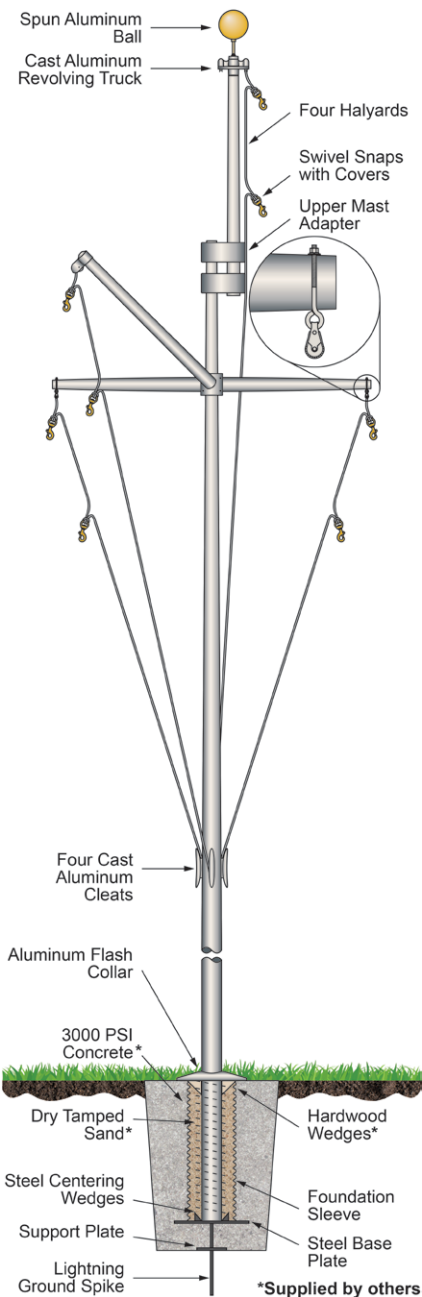
MODEL	EXPOSED HEIGHT	OVERALL LENGTH	# OF SECTIONS	BUTT DIA.	TOP DIA.	WALL	YARDARM LENGTH*	GAFF LENGTH*	SHIPPING WEIGHT
ECXP20-YG	20'	23'	1	5"	3"	.125	6'	5'	185 lbs.
ECP20-YG	20'	23'	1	5"	3"	.188	6'	5'	203 lbs.
ECXP25-YG	25'	27'	1	5"	3"	.125	6-1/2'	5-1/2'	217 lbs.
ECXAP25-YG	25'	27'	1	5"	3"	.156	6-1/2'	5-1/2'	217 lbs.
ECP25-YG	25'	27'	1	6"	3-1/2"	.188	6-1/2'	5-1/2'	263 lbs.
ECXP30-YG	30'	33'	1 or 2*	5"	3"	.125	8-1/2'	6-1/2'	227 lbs.
ECXAP30-YG	30'	33'	1 or 2*	5"	3"	.156	8-1/2'	6-1/2'	235 lbs.
ECAP30-YG	30'	33'	1 or 2*	6"	3-1/2"	.156	8-1/2'	6-1/2'	279 lbs.
ECP30-YG	30'	33'	1 or 2*	6"	3-1/2"	.188	8-1/2'	6-1/2'	290 lbs.
ECSAP35-YG	35'	38-1/2'	1	5"	3"	.188	9-1/2'	7-1/2'	289 lbs.
ECXP35-YG	35'	38-1/2'	1 or 2*	6"	3-1/2"	.156	9-1/2'	7-1/2'	307 lbs.
ECAP35-YG	35'	38-1/2'	1 or 2*	7"	3-1/2"	.156	9-1/2'	7-1/2'	336 lbs.
ECP35-YG	35'	38-1/2'	1 or 2*	7"	3-1/2"	.188	9-1/2'	7-1/2'	356 lbs.
ECXP40-YG	40'	44'	2**	7"	3-1/2"	.156	11'	9'	366 lbs.
ECAP40-YG	40'	44'	2**	8"	3-1/2"	.156	11'	9'	377 lbs.
ECP40-YG	40'	44'	2**	8"	3-1/2"	.188	11'	9'	403 lbs.
ECP45-YG	45'	49-1/2'	2**	8"	3-1/2"	.188	11'	9'	455 lbs.
ECXP50-YG	50'	55'	3**	8"	3-1/2"	.188	13'	10'	533 lbs.
ECP50-YG	50'	55'	3**	10"	4"	.188	13'	10'	613 lbs.
ECXP60-YG	60'	66'	3**	10"	4"	.188	14'	12'	785 lbs.
ECXAP60-YG	60'	66'	3**	10"	4"	.250	14'	12'	872 lbs.
ECP60-YG	60'	66'	3**	12"	4"	.250	14'	12'	956 lbs.
ECXP70-YG	70'	77'	3**	10"	4"	.312	16'	13'	1162 lbs.
ECP70-YG	70'	77'	3**	12"	4"	.250	16'	13'	1103 lbs.
ECP80-YG	80'	88'	3**	12"	4"	.375	18'	14'	1499 lbs.

♦ Yardarm Center diameter is 3-1/2", End diameter is 2" | ■ Gaff Butt diameter is 3-1/2", Top 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.

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



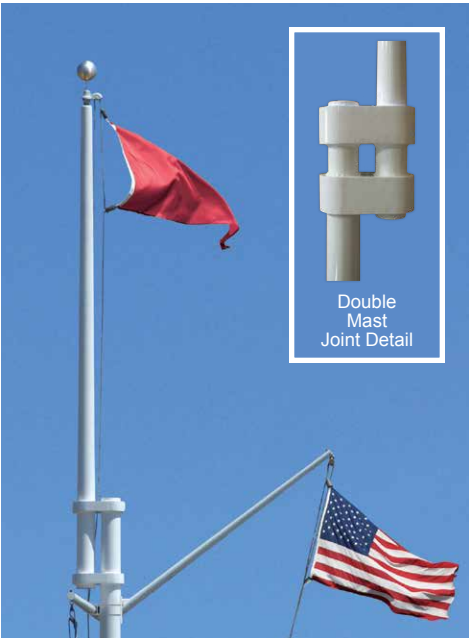
DOUBLE MAST NAUTICAL SERIES
WITH YARDARM & GAFF

External Halyard Ground Set Cone Tapered Aluminum Flagpoles
Standard finishes available: Satin, Clear, Bronze #313, Black

Double Mast Nautical Flagpoles are designed to authentically match the original concept of the old double masted ship riggings with the Stars & Stripes flying from the mast's gaff. The top & lower mast connecting bracket as well as the gaff and yardarm bracket are specially fabricated from aluminum plate and tubing, heliarc welded and finished to match the flagpole. The resulting flagpole is one of beauty, strength and authenticity. **Please allow 4 to 6 weeks after approval for shipping on satin poles.**

STANDARD ACCESSORIES

- Gold Anodized Aluminum Ball Ornament
- Cast Aluminum Revolving Truck Assembly
- 4 Lengths of Solid Braided Polypropylene Halyard
- Swivel Flag Snaps w/Vinyl Snap Covers
- 4 Cast Aluminum Cleats w/ Mounting Screws
- Spun Aluminum Flash Collar
- Galvanized Steel Foundation Sleeve



White powder coated Double Mast Nautical Pole shown

MODEL	EXPOSED HEIGHT	OVERALL LENGTH	# OF SECTIONS	BUTT DIA.	TOP DIA.	WALL	YARDARM LENGTH*	GAFF LENGTH*	SHIPPING WEIGHT
ECPDM20	20'	23'	1	5"	3"	.188	6'	5'	284 lbs.
ECPDM25	25'	27'	1	6"	3-1/2"	.188	6-1/2'	5-1/2'	330 lbs.
ECPDM30	30'	33'	1	6"	3-1/2"	.188	8-1/2'	6-1/2'	391 lbs.
ECPDM35	35'	38-1/2'	2	7"	3-1/2"	.188	9-1/2'	7-1/2'	438 lbs.
ECPDM40	40'	44'	2	8"	3-1/2"	.188	11'	9'	495 lbs.
ECPDM45	45'	49-1/2'	2	8"	3-1/2"	.188	11'	9'	658 lbs.
ECPDM50	50'	55'	2	10"	4"	.188	13'	10'	996 lbs.
ECPDM60	60'	66'	2	12"	4"	.250	14'	12'	1153 lbs.
ECPDM70	70'	77'	3	12"	4"	.312	16'	14'	1549 lbs.

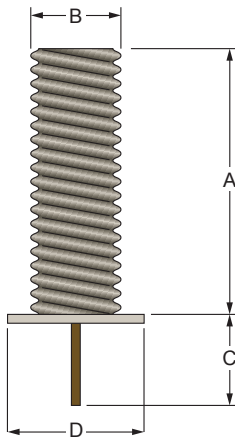
♦ Yardarm Center diameter is 3-1/2", End diameter is 2" | ■ Gaff Butt diameter is 3-1/2", Top diameter is 2"



FOUNDATION SLEEVES & ANCHOR BOLTS & LIGHTNING KITS

GALVANIZED STEEL FOUNDATION SLEEVES

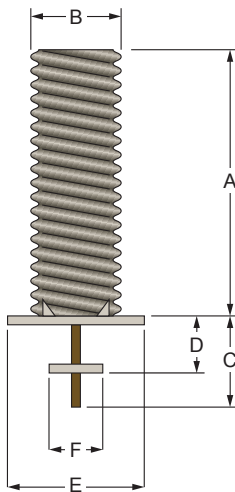
The most common type of flagpole installation is the in-ground foundation sleeve method which calls for 1' of the flagpole to be encased in the ground sleeve for each 10' of exposed flagpole height. The diameter of the sleeve should be at least 2" greater than the outside diameter of the flagpole with the area between the flagpole and the sleeve filled with dry sand. Sleeves to accommodate a pole with a diameter of 5" or larger are supplied with a base plate, support plate, grounding spike and, for ease of vertical alignment, steel centering wedges welded to the inside of the base plate. Please contact us if you require other sizes than listed or have special on-site conditions.



WITH BASE PLATE & GROUND SPIKE

For 3-1/2"–4" diameter poles

ITEM #	A	B	C	D	LBS.
380000	2'	6"	6"	8"	12
380002	3'	6"	6"	8"	17



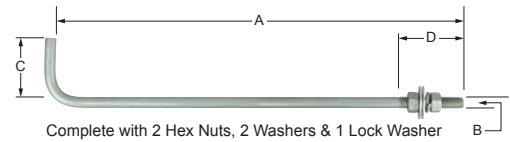
WITH BASE PLATE, SUPPORT PLATE, GROUNDING SPIKE & STEEL CENTERING WEDGES

For 5" and larger diameter poles

ITEM #	A	B	C	D	E	F	LBS.
380003	3'	8"	18"	6"	12"	6"	30
380004	3-1/2'	8"	18"	6"	12"	6"	32
380005	3'	10"	18"	6"	16"	8"	37
380006	3-1/2'	10"	18"	6"	16"	8"	44
380007	4'	12"	18"	6"	16"	8"	55
380196	4-1/2'	12"	18"	6"	16"	8"	60
380008	5'	12"	18"	6"	18"	9"	70
380009	5'	15"	18"	6"	20"	10"	86
380010	6'	15"	24"	10"	20"	10"	122
380011	6'	18"	24"	10"	24"	12"	135
380012	7'	15"	24"	12"	24"	12"	141
380013	7'	18"	24"	12"	24"	12"	156
380014	8'	18"	24"	12"	24"	12"	160

GALVANIZED STEEL ANCHOR BOLTS

For Shoe Base Installations



ITEM #	A	B	C	D	REQ. BOLTS	LBS.
380037	16"	5/8"	3-1/2"	4"	3	2.4
380038	24"	3/4"	4"	5"	4	3.5
380039	36"	1"	4"	6"	4	8.4
380040	40"	1"	4"	6"	4	9.0
380041	54"	1-1/4"	6"	8"	4	29

COPPER CLAD LIGHTNING KIT

Each kit contains a 5' long by 1/2" diameter copper clad rod, one 3' long by 1/2" diameter copper wire plus one connecting bracket.



ITEM #	ITEM	LBS.
380033	COMPLETE SET	4.5
380034	WIRE ONLY (PER FOOT)	.36
380035	5' x 1/2" ROD ONLY	1.2
380036	BRACKET ONLY	.36

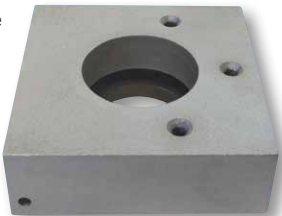
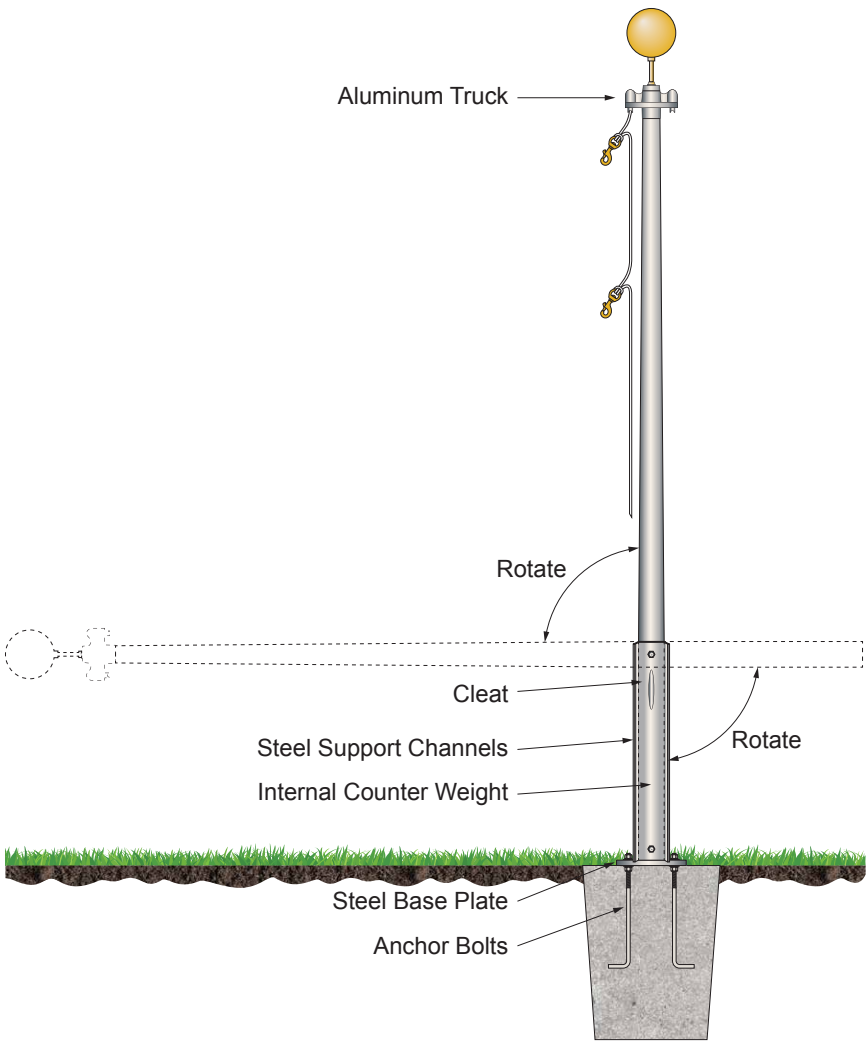
GROUND SLEEVE SIZING CHART

GROUND SLEEVE SIZE	MODEL	FLAGPOLE TYPE
2' x 6"	ECSA20	20' x 4" x .125"
3' x 6"	ECSA25	25' x 4" x .125"
3' x 6"	ECS30	30' x 4" x .125"
3' x 8"	ECX20	20' x 5" x .125"
3' x 8"	EC20	20' x 5" x .188"
3' x 8"	ECX25	25' x 5" x .125"
3' x 8"	ECXA25	25' x 5" x .156"
3' x 8"	ECX30	30' x 5" x .125"
3' x 8"	ECXA30	30' x 5" x .156"
3' x 8"	ECL30	30' x 5" x .188"
3.5' x 8"	ECS35	35' x 5" x .156"
3.5' x 8"	ECSA35	35' x 5" x .188"
3' x 10"	EC25	25' x 6" x .188"
3' x 10"	ECH25	25' x 6" x .250"
3' x 10"	ECA30	30' x 6" x .156"
3' x 10"	EC30	30' x 6" x .188"
3' x 10"	ECH30	30' x 6" x .250"
3.5' x 10"	ECX35	35' x 6" x .156"
3.5' x 10"	ECA35	35' x 7" x .156"
3.5' x 10"	EC35	35' x 7" x .188"
3.5' x 10"	ECH35	35' x 8" x .250"
4' x 12"	ECX40	40' x 7" x .156"
4' x 12"	ECA40	40' x 8" x .156"
4' x 12"	EC40	40' x 8" x .188"
4' x 12"	ECH40	40' x 8" x .250"
4-1/2' x 12"	EC45	45' x 8" x .188"
5' x 12"	ECX50	50' x 8" x .188"
5' x 15"	EC50	50' x 10" x .188"
5' x 15"	ECH50	50' x 10" x .312"
6' x 15"	ECX60	60' x 10" x .188"
6' x 15"	ECXA60	60' x 10" x .250"
6' x 18"	EC60	60' x 12" x .250"
7' x 15"	ECX70	70' x 10" x .312"
7' x 18"	EC70	70' x 12" x .250"
8' x 18"	EC80	80' x 12" x .375"

ALTERNATE MOUNTING SYSTEMS

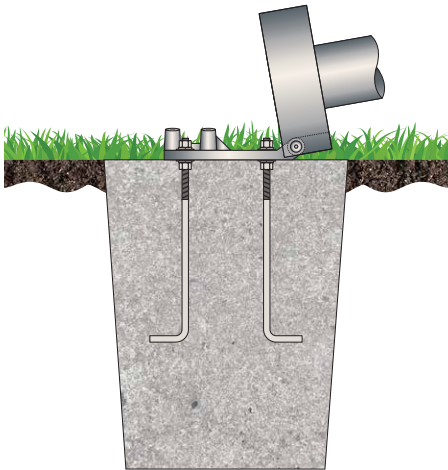
COUNTER-BALANCED TILTING FLAGPOLES

All of the 4"-10" diameter cone tapered aluminum flagpoles (except nautical) can be adapted with a counter-balanced tilt system. The recommended standard is not to exceed 50'. For ease of maintenance, the counter-balanced tilting flagpole has no equal. This unique design features a steel counter-weight inside the flagpole shaft to avoid disturbing the appearance of the tapered shaft. The base structure consists of two support channels welded to a base plate. The flagpole shaft is suspended by a pivot bolt and secured with a locking clip assembly. Anchor bolts are furnished for mounting to a concrete base. **Please allow 4 to 6 weeks after approval for shipping on satin poles.**



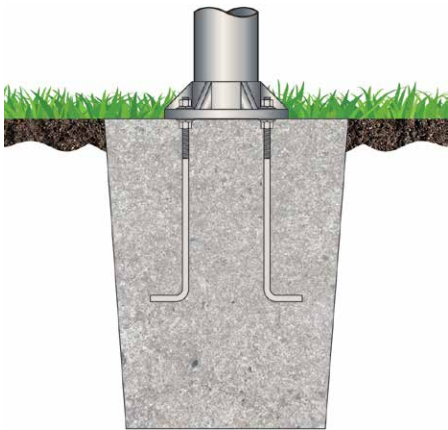
TILTING SHOE BASE FLAGPOLES

All of the cone tapered aluminum flagpoles with a 3", 4", 5" or 6" butt diameter can be supplied with a tilting shoe base. The tilting base is circumferentially welded to the base eliminating the need for a flash collar. The hinged portion of the base is held in place by stainless steel, allen head bolts and pivots on a solid aluminum pivot rod. Anchor bolts are furnished for mounting to a concrete base.



SHOE BASE FLAGPOLES

All of the cone tapered aluminum flagpoles with a 3", 4", 5", 6", 7", 8" and 10" butt diameter can be supplied with a shoe base mounting. The aluminum base is circumferentially welded to the flagpole shaft. A spun aluminum flash collar is supplied as standard unless otherwise specified. Anchor bolts are furnished for mounting to a concrete base. Contact us for a custom quote on shoe base mounting for 12" butt diameter poles.



TRUCKS FOR EXTERNAL HALYARD POLES

Standard finishes available: Silver, Bronze #313, White, Black

RTS-1 SERIES

Threaded • Revolving • Single Pulley



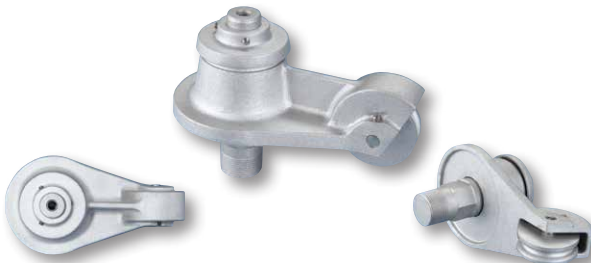
MODEL	FITS POLE DIAMETER	LBS.
RTS-1-125	3-1/2"	1.9

- **Construction:** cast aluminum
- **Pulley:** 1-1/2" outside diameter nylon on 1/4" stainless steel axle
- **Max halyard diameter:** 5/16"
- **Truck Spindle:** 1-1/4" NPT threading
- **Flagpole:** For up to 3-1/2" outside top diameter pole w/ female fitting installed
- **Ornaments:** accepts spindle threading of 1/2"-13NC*. Secured by 1 stainless steel set screw (1/4"-20NC)
- **Movement:** utilizes self-lubricating ball bearing assemblies for ease of rotation, product life and strength

* Can be supplied with other threading sizes if desired

HDT-1 SERIES

Threaded • Revolving • Single Pulley



MODEL	FITS POLE DIAMETER	LBS.
HDT-1	5-1/2"	4.8

- **Construction:** cast aluminum
- **Pulley:** 2-1/2" outside diameter cast aluminum on 1/2" stainless steel axle
- **Max halyard diameter:** 3/8"
- **Truck Spindle:** 1-1/4" NPT threading
- **Flagpole:** up to 5-1/2" outside top diameter pole w/ female fitting installed †
- **Ornaments:** accepts spindle threading of 1/2"-13NC*. Secured by 1 stainless steel set screw (1/4"-20NC)
- **Movement:** utilizes enclosed stainless steel bearings and raceway

* Can be supplied with other threading sizes if desired

† The revolving arm can be modified for larger pole top diameters; contact us for a prompt quotation.

HDT-2 SERIES

Threaded • Revolving • Double Pulley



MODEL	FITS POLE DIAMETER	LBS.
HDT-2	5-1/2"	5.1

- **Construction:** cast aluminum
- **Pulleys:** 3-3/4" outside diameter cast aluminum on 1/2" stainless steel axles
- **Max halyard diameter:** 3/8"
- **Truck Spindle:** 1-1/4" NPT threading
- **Flagpole:** up to 5-1/2" outside top diameter pole w/ female fitting installed
- **Ornaments:** accepts spindle threading of 1/2"-13NC*. Secured by 1 stainless steel set screw (1/4"-20NC)
- **Movement:** utilizes enclosed stainless steel bearings and raceway

* Can be supplied with other threading sizes if desired

RTA-1 SERIES

Threaded • Revolving • Single Pulley



MODEL	FITS POLE DIAMETER	LBS.
RTA-1-125	3-1/2"	2.0

- **Construction:** cast aluminum
- **Pulley:** 1-1/2" outside diameter machined aluminum on 1/4" stainless steel axle
- **Max halyard diameter:** 5/16"
- **Truck Spindle:** 1-1/4" NPT threading
- **Flagpole:** For up to 3-1/2" outside top diameter pole w/ female fitting installed
- **Ornaments:** accepts spindle threading of 1/2"-13NC*. Secured by 1 stainless steel set screw (1/4"-20NC)
- **Movement:** utilizes self-lubricating ball bearing assemblies for ease of rotation, product life and strength

* Can be supplied with other threading sizes if desired

ST-1 & OT SERIES

Cap Style • Stationary • Single Pulley



MODEL	FITS POLE DIAMETER	LBS.
ST-1-16	1-15/16"	.80
OT1	2-3/8"	.95
OT3	3"	1.3

- **Construction:** cast aluminum
- **Pulley:** nylon on stainless steel axle
- **Truck:** secured by stainless steel set screw(s)
- **Ornaments:** accepts spindle threading of 1/2"-13NC.* Secured by 1 stainless steel pan head screw (size 10-32)

* Can be supplied with other threading sizes if desired

O & M: EXTERNAL FLAGPOLE COMPONENTS

POLYPROPYLENE HALYARD
(SOLID BRAIDED MULTIFILAMENT) CUT-TO-LENGTH*

Available in White, Silver, Bronze #313 & Black



MODEL	DIA.	LBS. PER FOOT
PH6	3/16"	.01
PH8	1/4"	.01
PH10	5/16"	.02
PH12	3/8"	.02

POLYPROPYLENE HALYARD
(SOLID BRAIDED MULTIFILA-
MENT) PRE-BAGGED

Available in White, Silver & Bronze #313*



MODEL	LENGTH	DIA.	LBS.
NH4*	28'	1/8"	.12
PH6	30'	3/16"	.30
PH6*	40'	3/16"	.40
PH8*	30'	1/4"	.34
PH8	40'	1/4"	.45
PH8	50'	1/4"	.65
PH8	60'	1/4"	.75
PH10*	40'	5/16"	.90
PH10	50'	5/16"	.90
PH10	60'	5/16"	.95
PH10	70'	5/16"	1.2
PH10	80'	5/16"	1.4
PH10	90'	5/16"	1.5
PH10	100'	5/16"	1.5
PH12	120'	3/8"	2.5

* 28' NH4 in White only; 40' PH6 in White & Bronze #313 only; 30' PH8 in Silver only; 40' PH10 in Silver only

NYLON WIRE CUT-TO-LENGTH*

Available in White, Silver, Bronze #313 & Black



MODEL	DIA.	LBS. PER FOOT
NWCH6	3/16"	.03
NWCH8	1/4"	.03
NWCH10	5/16"	.04
NWCH12	3/8"	.04

TECHNORA® FLAGPOLE HALYARD
CUT-TO-LENGTH*

High performance, high tech fibers are encased inside a polyester fiber yarn jacket resulting in a high strength, low stretch, U.V. and abrasion resistant flagpole halyard. Available in White.



ITEM #	DESCRIPTION	DIA.	LBS.
350256	CUT-TO-LENGTH	1/4"	.02

* When ordering cut-to-length halyard please specify the number of feet desired. Also available in full spools.

Cleat and Halyard Covers provide added protection from theft and vandalism.



**With
Cylinder Lock**

**With
Padlock**



Halyard
Cover
(Extends
Upwards)



CLEAT COVER BOXES

Cast aluminum with stainless steel hinge pins. Design allows for easy installation utilizing the cleat holes to mount the cleat cover box.

Comes with choice of padlock or cylinder lock. Two extra long 1/4"-20NC stainless steel mounting screws are included.

The distance between bolt centers is 2-3/4". Rope cleat is not included; recommended cleats are the CL9, CL9/B, CL9/CP or CL9/SS.

LOCK TYPE	MODEL	FITS POLE DIA.	LBS.
CYLINDER	CBC-335	3"-3½"	5.0
CYLINDER	CBC-412	4"-12"	5.0
PADLOCK	CB-335	3"-3½"	5.6
PADLOCK	CB-412	4"-12"	5.6

HALYARD COVERS

The 1-3/4" wide by 1" deep aluminum channel is designed to be used with the above cleat cover boxes by providing additional protection 5', 6', 8', or 10' above the cleat cover box.

The 5', 6', and 8' models have an upper & lower hinge assembly and are secured to the pole with six #10-32NC stainless steel pan head screws (included).

The 10' model has upper, middle and lower hinge assemblies and is secured to the pole with nine #10-32NC stainless steel pan head screws (included).

Shown with cleat cover box, sold separately.

MODEL	LENGTH	WIDTH	DEPTH	LBS.
HC-5	5'	1-3/4"	1"	5.1
HC-6	6'	1-3/4"	1"	5.9
HC-8	8'	1-3/4"	1"	7.5
HC-10	10'	1-3/4"	1"	9.5

WALL MOUNTED HALYARD COVERS

Halyard cover comes mounted onto a 6" wide and 1/8" thick aluminum plate. The plate height is determined by the length of the halyard cover.

These are designed to be mounted using thru wall bolts or expansion shields utilizing 3/8" diameter threaded rod. Expansion shields are supplied as standard. If thru wall bolts are required please specify length. All nuts, washers & lock washers are supplied for a complete installation.

All Wall Mounted Halyard Covers are made to order. Please allow 1 - 2 weeks after approval for shipping.

MODEL	LENGTH	LBS.
WMHC-5	5'	9.5
WMHC-6	6'	12
WMHC-8	8'	15
WMHC-10	10'	19

WALL MOUNTED CLEAT BOXES

Cleat cover box comes mounted onto a 20" high, 12" wide, 1/8" thick aluminum plate.

These are designed to be mounted using thru wall bolts or expansion shields utilizing 3/8" diameter threaded rod. Expansion shields are supplied as standard. If thru wall bolts are required please specify length. All nuts, washers & lock washers are supplied for a complete installation.

All Wall Mounted Cleat Boxes are made to order. Please allow 1 - 2 weeks after approval for shipping.

MODEL	LOCK TYPE	LBS.
CBWM-C	CYLINDER	10
CBWM-P	PADLOCK	10.5

Standard colors available for above components: Silver, painted to match Clear, Bronze #313, White or Black

O & M: EXTERNAL FLAGPOLE COMPONENTS



SOLID BRASS SWIVEL SNAPS

MODEL	ITEM #	LENGTH	LBS.
ESS	350124	3"	.13
ESSL	350125	3-3/4"	.17
ESSXL	350126	4-3/4"	.30

NYLON SNAPS

MODEL	ITEM #	LENGTH	LBS.
ESN	350131	2-3/4"	.01
EVL	350132	3"	.04



ESN

EVL



NICKEL PLATED ZINC SWIVEL SNAP

MODEL	ITEM #	LENGTH	LBS.
ESSZ	350127	3-1/2"	.10

RUBBER COATED BRASS SWIVEL SNAPS

MODEL	ITEM #	LENGTH	COLOR	LBS.
ESR-W	350133	3"	WHITE	.13
ESR-B	350134	3"	BROWN	.13



White

Brown



CHROME PLATED BRASS SWIVEL SNAP

MODEL	ITEM #	LENGTH	LBS.
ESSC	350128	3-1/2"	.13

SOLID BRASS DOUBLE SNAP

MODEL	ITEM #	LENGTH	LBS.
DS-4	350135	4"	.14



STAINLESS STEEL SWIVEL SNAPS

MODEL	ITEM #	LENGTH	LBS.
SSFS1	350129	3-3/4"	.13
SSFS2	350130	4-3/4"	.28

STAINLESS STEEL SWIVEL SNAP w/LARGE EYE OPENING

Ideal for 25' x 40' flags and larger.

MODEL	ITEM #	LENGTH	LBS.
SSFS3	350257	4-3/4"	.35



QUICK LINK

Stainless Steel

MODEL	ITEM #	LENGTH	WIDTH	LBS.
SSQL	360329	2-7/8"	1-3/8"	.20



VINYL SNAP COVERS

MODEL	ITEM #	COLOR	LEN.	DIA.	LBS.
EVC-G	350137	GRAY	3-1/2"	1-1/4"	.05
EVC-B	350138	BROWN	3-1/2"	1-1/4"	.05
EVCXL-G	350139	GRAY	4-1/4"	1-1/2"	.08
EVCXL-B	350140	BROWN	4-1/4"	1-1/2"	.08



Gray

Brown

O & M: INTERNAL FLAGPOLE COMPONENTS

TRUCKS FOR INTERNAL HALYARD POLES

Standard finishes available: Silver, Bronze #313, White, Black

IH-2 SERIES

Cable Style • Threaded • Revolving • Single Pulley



MODEL	TRUCK BASE DIA.	TRUCK HT.	MAX. POLE TOP DIA.	LBS.
IHT-VR	5"	4-1/2"	3"	4.3
IHT-1	6-1/2"	6-1/2"	4"	6.4
IHT-2	7-1/2"	7-1/4"	5"	8.7
IHT-3	10-1/2"	8-1/2"	7-1/2"	13.6

- **Construction:** cast aluminum
- **Cable Bushing:** IHT-3 has a bronze fitting; all other sizes supplied with a stainless steel bushing at the cable exit point
- **Truck Spindle:** 1-1/4" NPT threading
- **Ornaments:** accepts spindle threading of 1/2"-13NC*. Secured by 1 stainless steel set screw (1/4"-20NC)
- **Movement:** IHT-3 utilizes stainless steel sealed lubricant bearing assemblies; all other sizes utilize enclosed stainless steel bearings and raceway.

* Can be supplied with other threading sizes if desired

IHT-VS SERIES

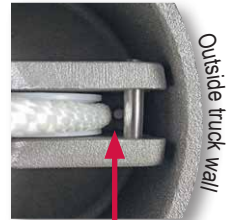
Vanguard Rope Style • Threaded • Stationary • Single Pulley



MODEL	FITS POLE DIAMETER	LBS.
IHT-VS	3-1/2"	2.4

- **Construction:** cast aluminum
- **Internal Pulley:** 2" outside diameter nylon on 1/4" stainless steel axle. Pulley assembly affixed to inside of truck
- **Max halyard diameter:** 5/16"
- **Truck Spindle:** 1-1/4" NPT threading
- **Flagpole:** For up to 3-1/2" outside top diameter pole w/ female fitting installed
- **Ornaments:** accepts spindle threading of 1/2"-13NC*. Secured by 1 stainless steel set screw (1/4"-20NC)

* Can be supplied with other threading sizes if desired



Recommended:
Thread halyard to inside of
halyard pin stop as shown.

OPTIONAL ORNAMENTS

ALUMINUM BALLS

Standard finishes available: Gold or Clear Anodized; Satin; Bronze #313, White, Black*



MODEL	DIA.	SPINDLE THREADING	LBS.
SB102	2"*	1/2"-13NC	.16
SB103	3"	1/2"-13NC	.30
SB104	4"	1/2"-13NC	.45
SB105	5"	1/2"-13NC	.60
SB106	6"	1/2"-13NC	.80
SB108	8"	1/2"-13NC	1.4
SB110	10"	5/8"-11NC	2.2
SB112	12"	5/8"-11NC	3.1

*2" ball ornaments available in Gold Anodized finish only.

ALUMINUM FLYING EAGLES

Standard finishes available: Gold or Natural



MODEL	WING SPAN	HEIGHT	SPINDLE THREADING	LBS.
E-11	11-1/4"	12"	1/2"-13NC	3.0
E-16	15"	18"	1/2"-13NC	7.0
E-24	24"	10"	1/2"-13NC	12

O & M: INTERNAL FLAGPOLE COMPONENTS



EXCLUSIVE M-WINCHES

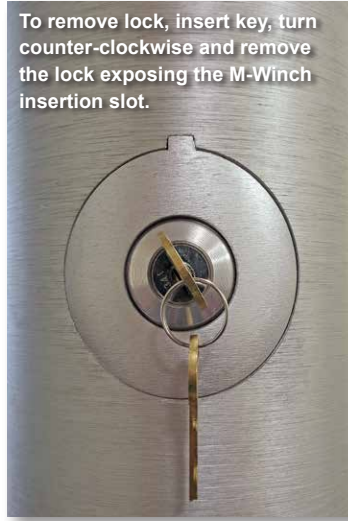
Standard finishes available: Satin, Clear, Bronze #313, White, Black

Our exclusive maintenance-free M-Winch is gearless and self-locking at any point, eliminating the need for a separate brake. This direct drive M-Winch provides rapid raising and lowering of the flag with little effort. The design does not require any welding, thus avoiding discoloration when an anodized finish is desired. No monthly lubrication is needed. This M-Winch system can be easily adapted to existing on-site flagpoles. The M-Winch is inserted into the pole and secured with a stainless steel bolt on the back side of the pole. Other sizes available upon request.

Normal appearance of M-Winch while flag is flying or there is no flag being flown.



To remove lock, insert key, turn counter-clockwise and remove the lock exposing the M-Winch insertion slot.

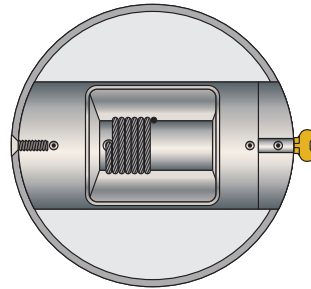


Insert handle into the M-Winch insertion slot, apply inward pressure to locking mechanism, and raise or lower the flag to desired position.



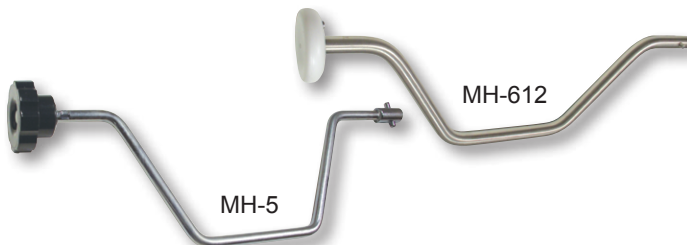
MODEL	FITS POLE DIA.	LBS.
M-5	5" w/.125 WALL	1.3
M-5	5" w/.156 WALL	1.3
M-6	6"	2.1
M-6H	6" w/.250 WALL	2.1
M-7	7"	2.3
M-8	8"	4.5
M-10	10"	4.9
M-1034	10-3/4"	5.1
M-12	12" w/.250 WALL	5.0
M-12	12" w/.375 WALL	5.0
M-1234	12-3/4"	7.9
M-14	14"	8.1

M-WINCH DETAIL



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

M-WINCH HANDLES



MODEL	FOR M-WINCH MODEL #	LBS.
MH-5	M-5	.50
MH-612	M-6 THRU M-14	1.1

LOCKS & KEYS FOR M-WINCHES

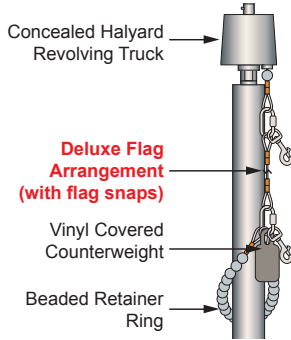


MODEL	DESCRIPTION	LBS.
M-L	LOCK w/KEY	.08
M-K	KEY ONLY*	.01

*Please provide number located on cylinder lock when ordering replacement keys.

DELUXE FLAG ARRANGEMENTS

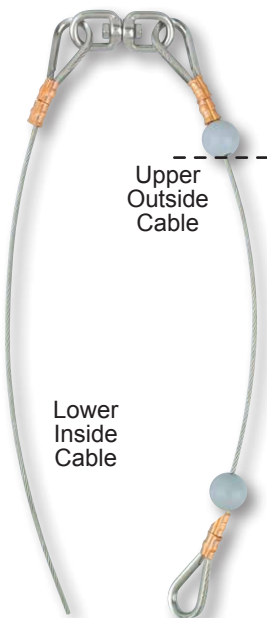
Constructed of 1/8" stainless steel aircraft cable with a stainless steel thimble attached at each end with 2 copper crimps. These flag arrangements provide the method of attaching the flag or flags to the cable assembly. This is also an excellent method for changing the quantity of flags or the size(s) of flag(s) without having to change the entire cable assembly. Deluxe flag arrangements are supplied with either 2 or 3 stainless steel quick links depending on the recommended flag size, flag snaps, shock spring where needed and safety cable where needed.



MODEL	ITEM #	FOR FLAG SIZE	SUPPLIED WITH				LBS.
			QUICK LINKS	FLAG SNAPS	SHOCK SPRING	SAFETY CABLE	
FA2	360474	2' x 3'	2	2 (STAINLESS STEEL SSFS-1)	—	—	1.2
FA25	360475	2-1/2' x 4'	2	2 (STAINLESS STEEL SSFS-1)	—	—	1.3
FA3	360476	3' x 5'	2	2 (STAINLESS STEEL SSFS-1)	—	—	1.3
FA4	360477	4' x 6'	2	2 (STAINLESS STEEL SSFS-1)	—	—	1.3
FA5	360478	5' x 8' or 5' x 9-1/2'	2	2 (STAINLESS STEEL SSFS-1)	—	—	1.4
FA6	360479	6' x 10'	2	2 (STAINLESS STEEL SSFS-1)	—	—	1.4
FA8	360480	8' x 12'	3	2 (STAINLESS STEEL SSFS-2)	1	1	2.3
FA10	360481	10' x 15' or 10' x 19'	3	2 (STAINLESS STEEL SSFS-2)	1	1	2.6
FA12	360482	12' x 18'	3	2 (STAINLESS STEEL SSFS-2)	1	1	2.6
FA15	360483	15' x 25'	3	2 (STAINLESS STEEL SSFS-2)	1	1	2.7
FA20	360484	20' x 30' or 20' x 38'	3	2 (STAINLESS STEEL SSFS-2)	1	1	2.9
FA25	360485	25' x 40'	3	2 (STAINLESS STEEL SSFS-2)	1	1	3.6
FA30	360486	30' x 50' or 30' x 60'	3	2 (STAINLESS STEEL SSFS-2)	1	1	4.4

CABLE ASSEMBLIES

Constructed of 1/8" and/or 3/16" stainless steel aircraft cable incorporating a stainless steel swivel to minimize the effect of unraveling due to the rotation of the truck assembly. The upper cable section is supplied with 1 stainless steel thimble, 2 copper crimps and 2 ball cable stops. The upper cable needs to be threaded through the truck assembly so the thimble, crimps & stops are not attached to the cable before shipment; they must be attached in the field. Standard cable assemblies are designed for flagpoles with a winch installed at 4' above grade.



ITEM #	EXPOSED HT. OF FLAGPOLE	LOWER INSIDE CABLE		UPPER OUTSIDE CABLE		LBS.
		DIA.	LEN.	DIA.	LEN.	
360056	20'	3/32"	20'	1/8"	20'	1.4
360332	25'	3/32"	25'	1/8"	25'	1.6
360057	25'	1/8"	25'	1/8"	25'	1.9
360333	30'	3/32"	30'	1/8"	30'	1.9
360058	30'	1/8"	30'	1/8"	30'	2.2
360334	35'	3/32"	35'	1/8"	35'	2.1
360059	35'	1/8"	35'	1/8"	35'	2.5
360060	40'	1/8"	40'	3/16"	40'	4.2
360061	45'	1/8"	45'	3/16"	45'	4.6
360062	50'	1/8"	50'	3/16"	50'	5.1
360063	60'	1/8"	60'	3/16"	60'	6.1
360064	70'	1/8"	70'	3/16"	70'	7.0
360066	80'	1/8"	80'	3/16"	80'	8.0
360067	90'	1/8"	90'	3/16"	90'	8.9
360068	100'	1/8"	100'	3/16"	100'	9.9
360069	110'	1/8"	110'	3/16"	110'	11
360070	120'	1/8"	120'	3/16"	120'	12
360071	130'	1/8"	130'	3/16"	130'	13
360072	140'	1/8"	140'	3/16"	140'	14
360073	150'	1/8"	150'	3/16"	150'	15
360074	160'	1/8"	160'	3/16"	160'	16
360075	170'	1/8"	170'	3/16"	170'	17
360076	180'	1/8"	180'	3/16"	180'	18
360077	190'	1/8"	190'	3/16"	190'	19
360078	200'	1/8"	200'	3/16"	200'	20

*To be used with 5" diameter poles with our M-5 Winch installed.

O & M: INTERNAL FLAGPOLE COMPONENTS

BEADED RETAINER RINGS

Standard colors available: White, Silver, Bronze #313, Black

Retainer rings are generally used with internal halyard flagpoles by providing a means of keeping the bottom of the flag close to the pole and as an aid to raise and lower the flag. Retainer rings can also be used on large multi-grommet flags on both external and internal halyard flagpoles as a means to keep the flags close to the pole and reduce the strain on the upper and lower grommets of the flag.

These beaded rings are made of either 1" or a combination of 1" & 2" diameter nylon balls strung onto 1/8" stainless steel aircraft cable with a stainless steel thimble attached to each end with two copper crimps and completed with a stainless steel quick link. The length of each retainer ring is determined by measuring from the outside tip of each thimble (the quick link is not included in the measurement).



MODEL	LENGTH	BUTT DIA. OF POLE	DIA. OF BALLS	LBS.
RR5	30"	5"	1"	.75
RR6	34"	6"	1"	.80
RR7	38"	7"	1"	.85
RR8	42"	8"	1"	.90
RR10	50"	10"	1"	1.1
RR11	54"	11"	1"	1.2
RR12	58"	12"	1"	1.2
RR13*	62"	13"	1" & 2"	2.5
RR14*	66"	14"	1" & 2"	2.7
RR16*	74"	16"	1" & 2"	3.1
RR18*	82"	18"	1" & 2"	3.4
RR20*	90"	20"	1" & 2"	3.8
RR22*	98"	22"	1" & 2"	4.2
RR24*	106"	24"	1" & 2"	4.6
RR30*	124"	30"	1" & 2"	5.8
RR32*	132"	32"	1" & 2"	6.2
RR34*	140"	34"	1" & 2"	6.6
RR36*	148"	36"	1" & 2"	7.0

*These models available in white only.



COUNTERWEIGHTS

Standard colors available: White, Silver, Bronze #313

Fabricated from 2" diameter steel and then coated with plastisol. The 3-1/2" pound weights are supplied with one eyebolt attached to one end while the 7 pound and 14 pound weights are supplied with an eyebolt attached to each end.



MODEL	LENGTH	LBS.	WHITE	SILVER	BRONZE #313
			ITEM #	ITEM #	ITEM #
CW35	3-1/2"	3.3	360313	360316	360319
CW7	7"	6.7	360314	360317	360320
CW14	14"	13	360315	360318	360321



TUNNEL LIGHTS

Sold in sets only – 18" long by 6" diameter aluminum cylinders. Fixtures accept 150 watt flood lamps for up/down lighting (lamps not included).

NOTE: Electrical access doors can only be supplied on 5" and larger diameter poles. Minimum wall thickness .156.

FOR POLE DIA.	LBS
5"	18
6"	18
7"	18
8"	18
10"	18
12"	18

TUNNEL LIGHT REPLACEMENT LENS



ITEM #	LBS
380190	.33

TUNNEL LIGHT LOCATION CHART

SHAFT LENGTH	LIGHT HEIGHT ABOVE GRADE	HEIGHT FROM POLE BOTOM	EXTRA IH CABLE	OVERALL SHAFT LENGTH
20'	9'	12'	4'	23'
25'	9'	12'	4'	27'
30'	11'	14'	6'	33'
35'	13'	16-1/2'	8'	38-1/2'
40'	14'	18'	9'	44'
45'	17'	22-1/2'	12'	49-1/2'
50'	19'	24'	14'	55'
60'	23'	29'	18'	66'
70'	26'	33'	21'	77'
80'	29'	37'	24'	88'



OBSTRUCTION LIGHT

This light measures 8-3/4" x 4-1/2" and is ideal for taller flagpoles near airports or flight paths. Lamp bulb is included. Set-up of flagpole to accept this lighting fixture can be done at the factory.

MODEL	ITEM #	LBS.
OL-R	380148	2.8

Also available in LED version upon request.



External
With 8" Gold or Silver Ball



Internal
With 2, 4 or 6 LED Bulbs



Cam Action
With 8" Gold or Silver Ball

ILLUMINATOR BEACON LIGHTS

Available upon request

Light your flag at night without adding to light pollution. The lights follow the flag as the wind blows.

Features on all models:

- 359° revolving truck
- LED bulbs
- Wire length of pole +10ft.
- Drivers built in to 12V and 110V fixtures
- Patented design lights the flag only and follows the flag as the wind blows it around the flagpole
- Optional: Dark Sky Certified and ETL (UL1598)
- Optional: Solar Power Package

When ordering please specify:

- Pole Halyard Style: External, Internal or Internal Cam Action
- Voltage: 12 Volt or 110 Volt
- Pole Height
- Dark Sky Requirements

We truly believe in our quality of materials and workmanship; therefore, our tapered aluminum flagpole shafts are covered by a Lifetime Warranty. Specific details on our warranty can be found in the document below.

We are honored to provide you this continued confidence when you are purchasing a commercial flagpole from Eder Flag.



Lifetime Warranty

Eder Flag Lifetime Aluminum Cone Tapered Commercial Flagpole Shaft Warranty

Eder Flag Manufacturing Company warrants for their intended use lifetime that the aluminum tapered flagpole shafts that we manufacture will be made of the best workmanship and free of defects in material at the time of shipment. When materials furnished on this job are used for the purpose intended, we hereby warrant the cone tapered aluminum flagpole shaft(s) shipped after May 1, 2017.

This intended use lifetime warranty extended to the original purchaser covers the aluminum cone tapered flagpole shaft only and does not include any accessories or connecting hardware. The accompanying hardware (with the exception of snaps, rope, ornaments or cable) is warranted for one (1) year from date of purchase.

Items damaged by improper installation and/or grounding, overloading with incorrect flag size, accident, vandalism, vehicular impact or neglect by owner are not covered by this guarantee. This shaft warranty does not include failures with following site conditions: wind induced vibrations and corrosive soils with low (under 5) pH values (Alkaline) or high (over 9) pH values (Acidic).

Guarantee will not be honored if any alterations, modifications, or additions are made to our product unless the latter is approved in writing by Eder Flag Mfg. Co., Inc. No claims for labor, dismantling, transportation, or re-erection will be honored. Eder Flag shall not be liable for any other loss or damage, including but not limited to consequential or liquidated damages, or back charges. Material that needs to be returned will require a written authorization form from our firm, which will include correct shipping instructions. Material returned without return authorization will not be accepted.

This warranty excludes any finishes such as powder coating and anodizing processes.

Eder Flag Manufacturing Company will, at its sole discretion repair, replace or credit original Buyer's account for any product that does not conform to this warranty. Eder Flag makes no other warranties, express or implied, which extend beyond the description on the face hereof.

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800-558-6044 | Fax 414-764-1039 | www.ederflag.com

The largest company in America that serves as both a flag and flagpole manufacturer



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