



Supplied By; American Rigging Supply, Inc.

Standard Quadrants

Edson's Standard Quadrants are cast Manganese Bronze or 356-T6 heat-treated Aluminum. Available in 8" through 36" radius sizes, the Edson Quadrant is effective whether mounted fore or aft of the rudderpost. The quadrants are machined to accept #618 Take-Up Eyes, making installation and adjustment of steering cables easy. All bearing surfaces are machined, a positive fit is assured by the Edson Capped Hub, and the clamping action allows installation without having to remove the rudder.

NOTE: All Quadrants must be mechanically affixed to rudderpost. See **Tech-Tip** pg 21.

Edson's Standard Quadrants

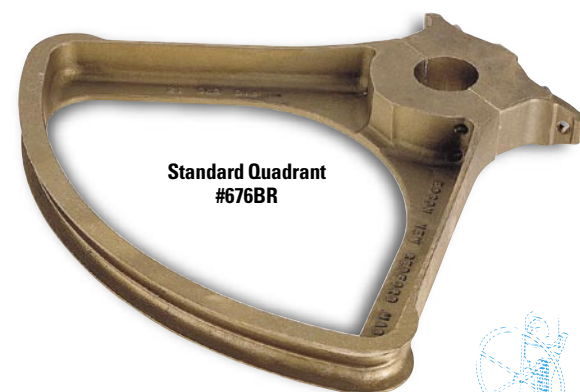
Cast in Manganese Bronze or weight-saving Aluminum, in 18" and 24" radiuses, these quadrants are substantially proportioned to withstand the most severe steering strains and shocks. The #676 Quadrants are available to fit rudder posts up to 3 1/2" (8.9 cm) in diameter.

Order #676, Specify Bore and Key (see Ordering Guide).

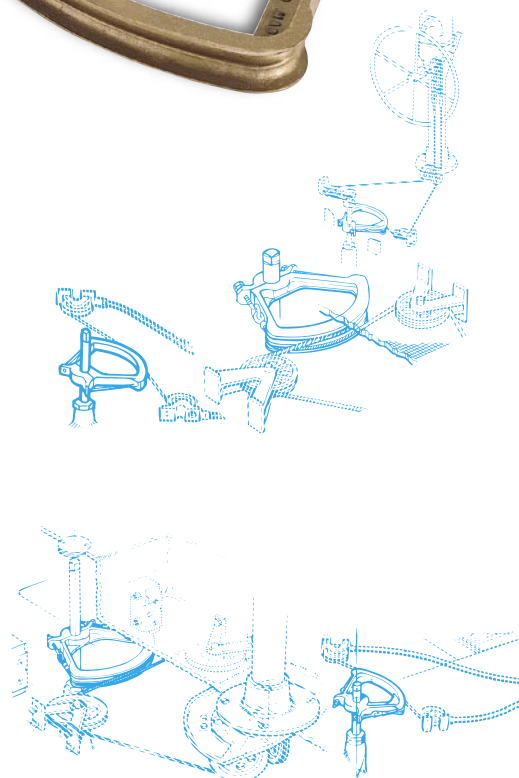
STANDARD QUADRANT ORDERING GUIDE

Order #	Material	Boat Size L.O.A.	Quadrant Radius in (cm)	Hub Height in (cm)	Pilot Bore Dia in (cm)	Max Bore Dia in (cm)	Max Keyway in (cm)	Weight lbs (kg)
676BR-8	Bronze	up to 35'	8 (20.3)	1 1/8 (4.0)	1 (2.54)	3 1/2 (8.9)	1/2 (1.3)	12 (5.4)
676BR-10	Bronze	35-45	10 (25.4)	1 1/8 (4.0)	1 (2.54)	3 1/2 (8.9)	1/2 (1.3)	13 (5.9)
676BR-12	Bronze	40-50	12 (30.5)	1 1/8 (4.0)	1 (2.54)	3 1/2 (8.9)	1/2 (1.3)	15 (6.8)
676BR-14	Bronze	45-55	14 (35.6)	1 1/8 (4.0)	1 (2.54)	3 1/2 (8.9)	1/2 (1.3)	17 (7.7)
676BR-16	Bronze	50-60	16 (40.6)	2 1/4 (6.4)	1 (2.54)	3 1/2 (8.9)	1/2 (1.3)	36 (16.3)
676BR-18	Bronze	55-65	18 (45.7)	2 1/4 (6.4)	1 (2.54)	3 1/2 (8.9)	1/2 (1.3)	36 (16.3)
676AL-18	Aluminum	55-65	18 (45.7)	2 1/4 (6.4)	1 (2.54)	3 1/2 (8.9)	1/2 (1.3)	15 (6.8)
676BR-20	Bronze	60-70	20 (50.8)	2 1/4 (6.4)	1 (2.54)	3 1/2 (8.9)	1/2 (1.3)	40 (18.1)
676BR-24	Bronze	70-90	24 (61.0)	2 1/4 (6.4)	1 (2.54)	3 1/2 (8.9)	1/2 (1.3)	46 (20.9)
676AL-24	Aluminum	70-90	24 (61.0)	2 1/4 (6.4)	1 (2.54)	3 1/2 (8.9)	1/2 (1.3)	19 (8.6)

Note: When specifying a square bore in a quadrant, please note that the maximum bore dimension is 1/2" (1.3 cm) smaller.



Standard Quadrant #676BR



Important!

Edson highly recommends installing an autopilot independent of the primary steering system. This provides for a redundant/backup system in the event of steering gear or cable failure - in effect an "Electronic Emergency Tiller". Edson's Autopilot Tiller Arm allows the autopilot to be mounted independently of the primary steering system and should be used to attach an autopilot to the rudderpost.



See Pg 60 for Autopilot Tiller Arms

IN NO CASE SHOULD THE AUTOPILOT BE ATTACHED DIRECTLY TO THE QUADRANT OR RADIAL DRIVE WHEEL!

Edson's Extra Large Bore Quadrants

Designed for boats with larger-diameter rudderposts. Cast in both weight-saving Aluminum and Manganese Bronze with strengthening webs through the center section of the quadrant, these quadrants handle rudderposts from 3 1/2" (8.9 cm) to 6" (15.2 cm) in diameter.

Order #835, Specify Material, Bore and Key (see Selection Guide).

EXTRA EXTRA LARGE BORE QUADRANT ORDERING GUIDE

Order #	Material	Boat Size L.O.A.	Quadrant Radius in (cm)	Hub Height in (cm)	Pilot Bore Dia in (cm)	Max Bore Dia in (cm)	Max Keyway in (cm)	Weight lbs (kg)
835BR-14	Bronze	45-55	14 (35.6)	2 1/4 (6.4)	3 1/2 (8.9)	5 (12.7)	1/2 (1.3)	25 (11.3)
835AL-14	Aluminum	45-55	14 (35.6)	2 1/4 (6.4)	3 1/2 (8.9)	5 (12.7)	1/2 (1.3)	12 (5.4)
835BR-16	Bronze	50-60	16 (40.6)	2 1/4 (6.4)	3 1/2 (8.9)	5 (12.7)	1/2 (1.3)	28 (12.7)
835BR-18	Bronze	55-65	18 (45.7)	2 1/4 (6.4)	3 1/2 (8.9)	5 (12.7)	1/2 (1.3)	35 (15.8)
835AL-18	Aluminum	55-65	18 (45.7)	2 1/4 (6.4)	3 1/2 (8.9)	5 (12.7)	1/2 (1.3)	17 (7.7)
835BR-20	Bronze	60-75	20 (50.8)	2 1/4 (6.4)	3 1/2 (8.9)	5 (12.7)	1/2 (1.3)	40 (18.1)
835BR-24	Bronze	70-90	24 (61)	2 1/4 (6.4)	3 1/2 (8.9)	5 (12.7)	1/2 (1.3)	49 (22.2)
835AL-24	Aluminum	70-90	24 (61)	2 1/4 (6.4)	3 1/2 (8.9)	5 (12.7)	1/2 (1.3)	21 (9.5)
835AL-30	Aluminum	80-100	30 (76.2)	3 3/4 (9.5)	3 1/2 (8.9)	6 (15.2)	1/2 (1.3)	56 (25.4)
835AL-36	Aluminum	90-120	36 (91.4)	3 3/4 (9.5)	3 1/2 (8.9)	6 (15.2)	1/2 (1.3)	73 (33.1)

Note: When specifying a square bore in a quadrant, please note that the maximum bore dimension is 1/2" (1.3 cm) smaller.



Extra Large Bore Quadrant #835BR

Custom quadrants in aluminum and bronze available.

Offset Quadrants

Ideal for boats needing extra room on the rudderpost for the addition of an autopilot, a second steering station, or where an obstruction exists. In boats with excessively raked rudderposts, Offset Quadrants can be mounted up or down. Hubs are machined on all bearing surfaces and accept #618 Takeup Eyes simplifying installation and adjustment of the steering cables. The capped hub insures a positive fit and the clamping action permits installation without having to lower the rudder.

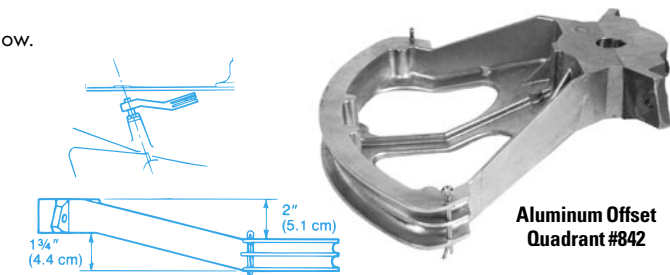
NOTE: All Quadrants must be mechanically affixed to rudderpost. See **Tech-Tip** below.

Aluminum Offset Quadrant

Designed and cast for strength and versatility. In 10" and 14" radius sizes, it is cast of 356-T6 heat-treated Aluminum and with strengthening webs. It is manufactured to be used with stainless or aluminum rudderposts and must be equipped with #684 Stainless Key Stock or pins when attaching to the rudderpost.

Not to be used on Bronze rudderposts.

Order #842 (see Ordering Guide)

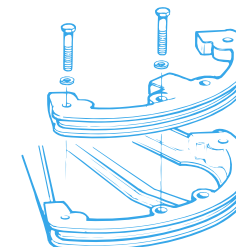


Aluminum Offset Quadrant #842

Bolt-On Double Offset Quadrant Segment

Provides a second radius for use with an autopilot or a second steering station. Available in 10" and 14" radius sizes, the Offset Quadrant Segment can be easily mounted to the #842 Aluminum Offset Quadrant.

Order #857 (see Ordering Guide)



Offset Quadrant Segment #857

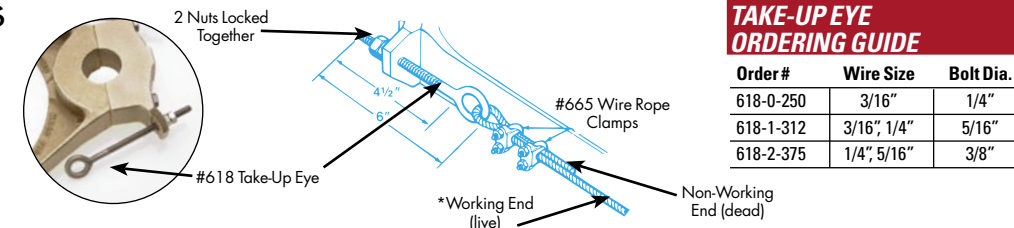


Important!

Please supply an accurate dimension of your rudderpost or the bore along with the key size and Edson will machine the quadrant to suit. Edson allows a .005" (.13 mm) to .006" (.15 mm) clamping action of the cap to the rudderpost. The quadrant must be carefully fitted for optimum strength; if fitted too tightly the cap could bend when tightened, and if fitted too loosely the quadrant could work loose or drop. Either could cause premature failure. Quadrants for square rudderposts require special machining and exact measurement of the flats of the square and the location of the points of the square must be provided. For special machining requirements see #946 on the Price Page.

Stainless Take-Up Eyes

Edson's Take-Up Eyes accept Wire Rope up to 3/8" (9.5 mm) in diameter, making adjustment of steering cable tension easy. For use with both Quadrants and Radial Drive Wheels.



TAKE-UP EYE ORDERING GUIDE

Order #	Wire Size	Bolt Dia.
618-0-250	3/16"	1/4"
618-1-312	3/16", 1/4"	5/16"
618-2-375	1/4", 5/16"	3/8"

Stainless Key Stock

Edson's Stainless Key Stock is recommended for use when attaching the quadrant to the rudderpost.

Order # 684 (See Ordering Guide)



STAINLESS KEY STOCK ORDERING GUIDE

Order #	Size in (mm)	Length in (mm)	Rudderpost Diameter in (mm)	Weight oz (g)
684-250	1/4 x 1/4 (6.35 x 6.35)	6 (152.4)	1-1/2 (2.54-3.18)	1.7 (47.6)
684-250W	1/4 x 1/4 (6.35 x 6.35)	1.5 (38)	For Use on Straight Wheelshaft	1.0 (28)
684-187W	3/8 (4.8) #9	woodruff key	For use on Tapered Wheelshaft	1.0 (28)
684-375	3/8 x 3/8 (9.52 x 9.52)	6 (152.4)	1 1/2-2 1/4 (3.49-5.71)	3.8 (106.4)
684-500	1/2 x 1/2 (12.7 x 12.7)	6 (152.4)	2 1/2 and up (5.71 and up)	6.7 (187.6)



Tech Tip

Installing Quadrants, Radial Drive Wheels & Tiller Arms

Quadrant, Drive Wheels and Tiller Arms must be positively secured on the rudderpost in addition to Edson's tight clamping tolerance. This can be done by:

- 1) Securing the quadrant to a solid rudderpost stock by cutting a keyway in the rudderpost and in the quadrant.
- 2) Through-pinning the quadrant to a hollow rudderpost. Edson will provide a predrilled quadrant cap and a 3/8" (1 cm) stainless pin for 8" through 15" quadrants or a 1/2" (1.3 cm) stainless pin for 16" through 20" quadrants.
- 3) Securing with set screws by drilling and tapping into the quadrant cap and the rudderpost (be it solid or hollow).

Please Specify the method of securing when ordering.

