

# Big Boat End Controls

Big Boat end controls secure to track, eliminating additional holes. Tough one-piece bases and cam arms are machined from a single piece of aluminum.

Ball bearing sheaves let cars adjust under load and release instantly. Compact, high-strength Carbo AirBlock® components keep traveler weight minimal. Cam-Matic® cleats provide precise cleating.

Use 3171 to route control lines to the deck from a bridge-mounted traveler.

## High-Load Controls

High-load controls allow 2:1 to 6:1 purchases on offshore boats with mainsails over 400 ft² (37 m²). The 3185, 3186 and 3193 use multiple rows of ball bearings. The 3173 and 3174 feature 57 mm Black Magic® Big Boat ball/roller sheaves and high-load aluminum sideplates.

## ESP End Controls

Use 6088 double-sheave ESP end controls for cabintop travelers where lines lead to the aft edge of the cabintop. Use the 6090 control block for a 3:1 purchase or the 1845 (see page 116) for a 4:1 purchase. Contact Harken® to order special length 3156 track with control mounting holes.

End controls feature 40 mm Carbo AirBlock® sheaves with free-running Torlon® ball bearings

Installs with single screw

Dual shock absorbers cushion car impact

Integral bar for dead-ending control line



3170



3168

3169



3171

3124



3125

6088



3173

3174

3185

3186

3193

### Control Purchase Recommendations

Sail area				
End-boom sheeting		Mid-boom sheeting		Purchase
ft²	m²	ft²	m²	
Under 260	Under 24	Under 240	Under 22	3:1
260-450	24-42	240-400	22-37	4:1
450-600	42-56	400-550	37-51	6:1
Over 600	Over 56	Over 550	Over 51	2:1 w/winch

Part No.	Description	Sheave Ø		Length		Width		Weight		Max line Ø		Height above track		Maximum working load		Breaking load		Purchase
		in	mm	in	mm	in	mm	oz	g	in	mm	in	mm	lb	kg	lb	kg	
3124	Adjustable pinstop	—	—	2 <sup>9</sup> / <sub>16</sub>	65	2 <sup>1</sup> / <sub>4</sub>	57	8	227	—	—	1 <sup>5</sup> / <sub>16</sub>	33	—	—	—	—	—
3125	Adjustable pinstop/shackle	—	—	4 <sup>1</sup> / <sub>16</sub>	113	2 <sup>1</sup> / <sub>4</sub>	57	15.2	431	—	—	1 <sup>27</sup> / <sub>32</sub>	46	3500	1588	—	—	—
3168	Single sheave (pair)	1 <sup>9</sup> / <sub>16</sub>	40	4 <sup>13</sup> / <sub>16</sub>	122	2 <sup>1</sup> / <sub>4</sub>	57	27	767	3/8	10	1 <sup>1</sup> / <sub>16</sub>	36	450	204	1600	725	1:1/2:1
3169	Double sheave (pair)	1 <sup>9</sup> / <sub>16</sub>	40	4 <sup>13</sup> / <sub>16</sub>	122	2 <sup>1</sup> / <sub>4</sub>	57	31	887	3/8	10	2	51	900	408	2300	1040	3:1/4:1
3170	Double sheave/150 Cam-Matic® (pair)	1 <sup>9</sup> / <sub>16</sub>	40	4 <sup>13</sup> / <sub>16</sub>	122	4 <sup>1</sup> / <sub>8</sub>	104	39	1116	3/8	10	2	51	900	408	2300	1040	3:1/4:1
3171	Double sheave for dodger (pair)*	1 <sup>9</sup> / <sub>16</sub>	40	4 <sup>13</sup> / <sub>16</sub>	122	2 <sup>7</sup> / <sub>8</sub>	73	29	822	3/8	10	1 <sup>1</sup> / <sub>16</sub>	36	900	408	2300	1040	3:1/4:1
3173	High-load single (pair)	2 <sup>1</sup> / <sub>4</sub>	57	6 <sup>7</sup> / <sub>16</sub>	164	2 <sup>1</sup> / <sub>4</sub>	57	35	981	7/16	12	1 <sup>1</sup> / <sub>16</sub>	28	2500	1134	5000	2268	1:1/2:1
3174	High-load double (pair)	2 <sup>1</sup> / <sub>4</sub>	57	6 <sup>7</sup> / <sub>16</sub>	164	2 <sup>1</sup> / <sub>4</sub>	57	41	1169	7/16	12	1 <sup>15</sup> / <sub>16</sub>	49	1650	750	3300	1500	3:1/4:1
3185	High-load double/becket (pair)	1 <sup>13</sup> / <sub>16</sub> /1 <sup>3</sup> / <sub>8</sub>	46/35	6 <sup>7</sup> / <sub>16</sub>	164	2 <sup>1</sup> / <sub>4</sub>	57	51.2	1452	3/8	10	1 <sup>9</sup> / <sub>16</sub>	39	1100	499	2500	1134	4:1
3186	High-load triple/becket (pair)	1 <sup>13</sup> / <sub>16</sub> /1 <sup>3</sup> / <sub>8</sub>	46/35	6 <sup>7</sup> / <sub>16</sub>	164	2 <sup>1</sup> / <sub>4</sub>	57	54.4	1542	3/8	10	2 <sup>3</sup> / <sub>8</sub>	60	1500	680	2500	1134	5:1/6:1
3193	High-load triple/becket/150 Cam-Matic® (pair)	1 <sup>13</sup> / <sub>16</sub> /1 <sup>3</sup> / <sub>8</sub>	46/35	6 <sup>1</sup> / <sub>2</sub>	165	4 <sup>7</sup> / <sub>8</sub>	124	32	908	3/8	10	2 <sup>3</sup> / <sub>8</sub>	60	1500	680	2500	1134	5:1/6:1
6088	ESP Double sheave (pair)**	2 <sup>1</sup> / <sub>4</sub>	57	7 <sup>7</sup> / <sub>16</sub>	180	2 <sup>1</sup> / <sub>4</sub>	57	37	1050	3/8	10	1 <sup>3</sup> / <sub>8</sub>	35	700	318	2000	907	3:1/4:1

Fit all Big Boat track \*Requires high-beam track or fitted support for low-beam track \*\*Requires special track