



## 6. Winch



Lewmar winches are designed with both cruising sailors and racing crews in mind. The EVO® range of winches meets the needs of sailors and boat builders with a perfect blend of looks, functionality, and reliability. We have a range of new race-inspired winches and, for short-handed crews, the revolutionary REVO® backwinding winch makes sail handling a breeze.

Constant evolution results in Lewmar winches being fitted to numerous sailing boats: from high-volume OEMs to some of the world's biggest superyachts.

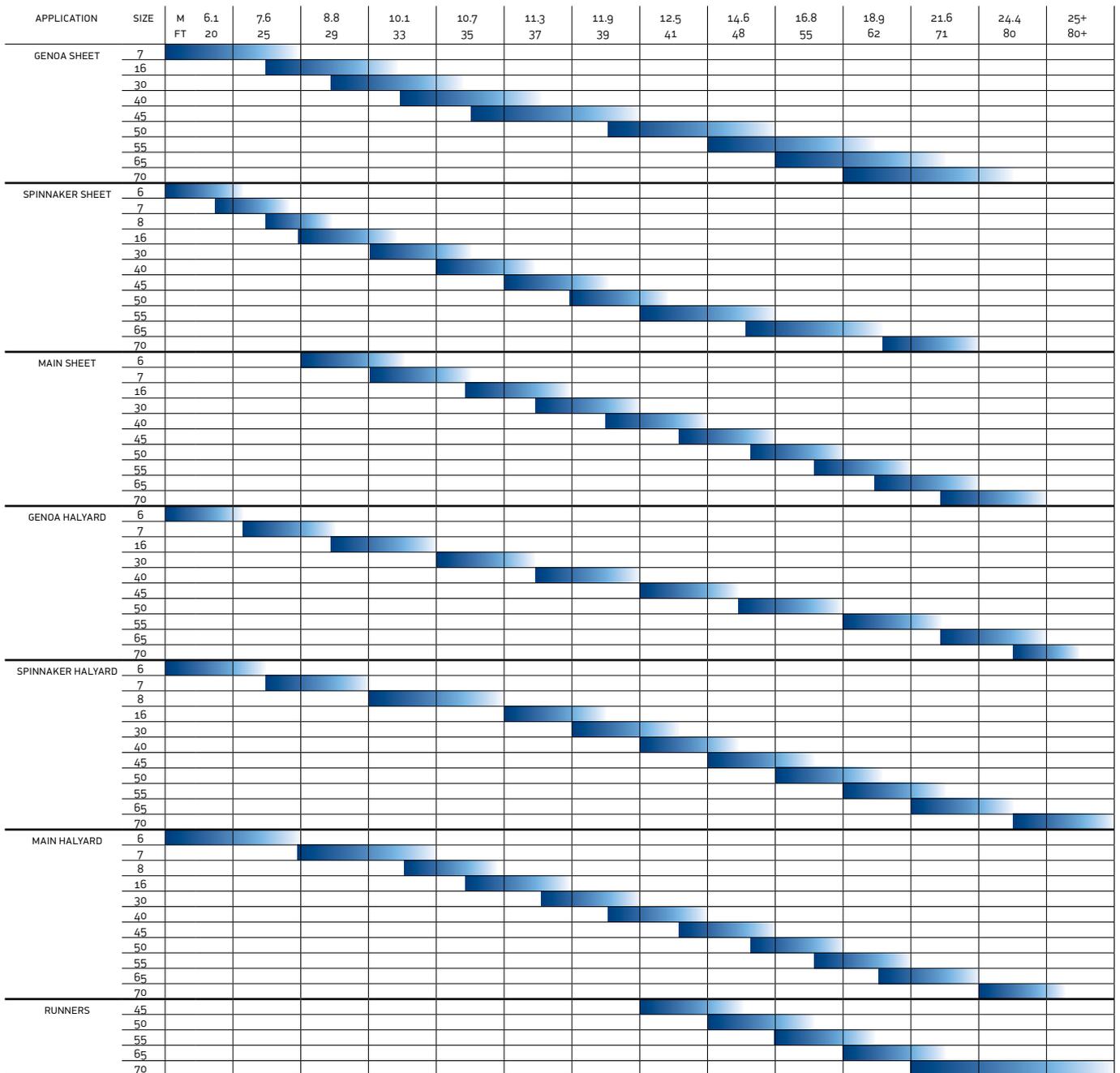
# 6. Winch

## Winch Selection Guide

Efficient sail handling begins with the selection of the correct winch. To help you select from the winches described in the following pages the chart below is designed as a quick reference to match application, yacht size and winch. Cross reference your yacht size (for masthead rigs) or sail area (fractional rigs) with application, to ascertain the correct winch. You can also send your deck and sail plans to your Lewmar representative, they will be pleased to make individual recommendations. REMEMBER runner winch and mainsheet winch selection depends on the purchase system fitted, and expected loads. Dynamic sail loads can easily increase the loads dramatically. Multihulls generally have a higher righting moment than monohulls of equivalent lengths, resulting in higher dynamic loading, therefore, winch size needs to be larger – consult your Lewmar representative or rigger for further guidance.

### Sail Area

APPLICATION	M FT	BOAT LENGTH OVERALL																					
		6.1-7.6 20-25		7.6-8.8 25-29		8.8-10.1 29-33		10.1-10.7 33-35		10.7-11.3 35-37		11.3-11.9 37-39		11.9-12.5 39-41		12.8-14.6 42-48		14.6-16.8 48-55		16.8-18.9 55-62		18.9-21.6 62-71	
GENOA (FT <sup>2</sup> /M <sup>2</sup> )		200	19	300	28	350	33	470	44	550	51	600	56	750	70	900	84	1500	139	1900	177	2300	214
SPINNAKER (FT <sup>2</sup> /M <sup>2</sup> )		300	28	400	37	600	56	800	74	1000	93	1200	111	1400	130	1600	149	3000	279	3800	353	4600	427
MAIN (FT <sup>2</sup> /M <sup>2</sup> )		120	11	150	14	180	17	210	20	230	21	260	24	300	28	350	33	750	70	875	81	1000	93



LIGHTER SHADING REPRESENTS THE UPPER LIMIT OF THE MODEL. IF IN DOUBT, MOVE UP A MODEL.

USE AS GUIDE ONLY

## The Lewmar Winch Range



### Page 202 EVO® Winch

- Available from size 6 to size 80
- Easy Servicing – no tools required
- Convertable to electric from size 40 up
- Choice of multiple styles and finishes
- 7 year warranty



### Page 205 Electric Winches

- Purchase complete or retrofit
- Push button power control
- Features manual override



### Page 212 Ocean Self-Tailing Winches

- Easy Servicing – no tools required
- Convertable to electric from size 40 up
- Available in size 16 to size 65



### Page 218 REVO™ Winch

- Available in five sizes (40, 45, 50, 55, 65)
- Uses proven winch internals so retains all the benefits of the EVO® Winch
- Most suitable for genoa sheeting



### Page 216 Hydraulic Winches

- Ideal for craft over 15m (50ft)
- Minimal space and weight
- Quiet operation
- Features manual override



### Page 224 Custom Winches

- Cutting edge performance
- Wide range of finish and style
- Superior strength
- Easy to service



### Page 230 Racing Pedestal and GP Winches

- Lightweight I-beam carbon shell
- Unique belt drive ensures maximum efficiency
- Removable pedestal option for fast cruising market



### Page 234 Line Management System

- Up to 25% lighter than previous models
- Up to 3 speed options
- Unique stowing system ensures low line tension
- Emergency high-load release feature



### Page 237 Winch Handles

- Award-winning OneTouch offers easy one-handed removal
- Lightweight, forged construction
- PowerGrip makes initial one-handed fast cranking easy
- Corrosion resistant

## 6. Winch



### EVO® Self-Tailing Winches

An evolution of the renowned Lewmar Ocean winch, the EVO® Self-Tailing Winch draws on a wealth of design and manufacturing experience to produce a state-of-the-art product. With a wide choice of sizes and styles, there is a versatile EVO® for any style or application.

- **Simple Servicing**  
No tools are required to service a Lewmar EVO® winch. Simply unscrew the top cap with your fingers to remove the drum and provide access to the gear train.
- **Multiple Styles and Finishes**  
EVO® winches are available in black or grey alloy and chrome bronze for the cruising sailor. Manual winches feature single speed or two speed, while size 40 to size 80 are available with electric or hydraulic operation.
- **Wave Spring Jaw and Feeder Arm**  
The integrated, investment-cast, stainless steel feeder arm completely covers the top of the winch, preventing a rope trap above the Wavespring jaws. The feeder arm position can be adjusted to smoothly feed the rope out of the jaws and into the cockpit.
- **Engineering Excellence**  
For Lewmar customers, there is no such thing as “just a winch”. That’s because inside every winch you will find materials developed over many years, designed using the latest techniques, and machined using CNC equipment. When we machine the winches we are looking for the maximum in efficiency, durability, and strength to weight ratio.
- **Electric Winches (40 and above)**  
Whatever sailing you do, short handed or long distance cruising, the decision to install electric winches or upgrade your existing winches with one of our conversion kits is simple.
- **7-Year Warranty**  
We are so confident about the quality of the EVO® winch range that we are supporting it with a 7-year warranty.

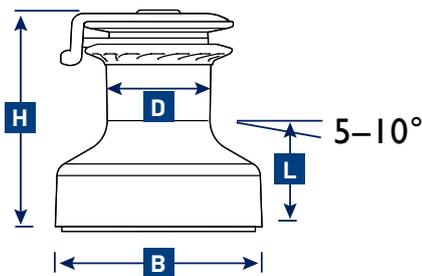




### Expert Advice

When installing a winch, Lewmar recommends the winch must be mounted on a flat surface and that the rope enters the drum at an angle of 5° to 10° to the base axis of the winch. This angle can be achieved by using a base wedge when mounting the winch.

### Dimensions Diagram EVO® Self-Tailing Winch



### Mounting Instructions

15ST	5 X M6 (1/4 IN) C'SK HEAD SCREWS ON 94MM (3 <sup>7</sup> / <sub>10</sub> IN) PCD
30ST	5 X M6 (1/4 IN) C'SK HEAD SCREWS ON 113MM (4 <sup>15</sup> / <sub>32</sub> IN) PCD
40ST	5 X M6 (1/4 IN) C'SK HEAD SCREWS ON 121MM (4 <sup>3</sup> / <sub>4</sub> IN) PCD
45ST	5 X M8 (5/16 IN) C'SK HEAD SCREWS ON 136MM (5 <sup>1</sup> / <sub>32</sub> IN) PCD
50ST	5 X M8 (5/16 IN) C'SK HEAD SCREWS ON 150MM (5 <sup>29</sup> / <sub>32</sub> IN) PCD
55ST	6 X M8 (5/16 IN) C'SK HEAD SCREWS ON 165MM (6 <sup>1</sup> / <sub>2</sub> IN) PCD
65ST	5 X M10 (3/8 IN) C'SK HEAD SCREWS ON 184MM (7 <sup>1</sup> / <sub>4</sub> IN) PCD
70-70/3ST	6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 241MM (9 <sup>1</sup> / <sub>2</sub> IN) PCD
80-80/3ST	6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 241MM (9 <sup>1</sup> / <sub>2</sub> IN) PCD

### EVO® Self-Tailing Winch Specifications

PART NO	MODEL	FINISH	GEAR RATIO		POWER RATIO		WLL		WEIGHT		D DRUM DIA		B BASE DIA		H HEIGHT		L LINE ENTRY		LINE SIZE	
			1ST	2ND	1ST	2ND	KG	LB	KG	LB	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
49515055	15ST	ALLOY BLACK	2:1	-	15.8:1	-	570	1257	2.6	5.7	66.8	2 <sup>5</sup> / <sub>8</sub>	121	4 <sup>3</sup> / <sub>4</sub>	119	4 <sup>11</sup> / <sub>16</sub>	58	2 <sup>5</sup> / <sub>16</sub>	8-12	5/16-1/2
49515057	15ST	ALLOY GREY	2:1	-	15.8:1	-	570	1257	2.6	5.7	66.8	2 <sup>5</sup> / <sub>8</sub>	121	4 <sup>3</sup> / <sub>4</sub>	119	4 <sup>11</sup> / <sub>16</sub>	58	2 <sup>5</sup> / <sub>16</sub>	8-12	5/16-1/2
49515056	15ST	CHROME BRONZE	2:1	-	15.8:1	-	570	1257	3.9	8.6	66.8	2 <sup>5</sup> / <sub>8</sub>	121	4 <sup>3</sup> / <sub>4</sub>	119	4 <sup>11</sup> / <sub>16</sub>	58	2 <sup>5</sup> / <sub>16</sub>	8-12	5/16-1/2
49530055	30ST	ALLOY BLACK	2:1	4.2:1	13.8:1	29.2:1	685	1510	4	8.8	74	2 <sup>15</sup> / <sub>16</sub>	138	5 <sup>7</sup> / <sub>16</sub>	145.85	5 <sup>3</sup> / <sub>4</sub>	69	2 <sup>1</sup> / <sub>16</sub>	8-12	5/16-1/2
49530057	30ST	ALLOY GREY	2:1	4.2:1	13.8:1	29.2:1	685	1510	4	8.8	74	2 <sup>15</sup> / <sub>16</sub>	138	5 <sup>7</sup> / <sub>16</sub>	145.85	5 <sup>3</sup> / <sub>4</sub>	69	2 <sup>1</sup> / <sub>16</sub>	8-12	5/16-1/2
49530056	30ST	CHROME BRONZE	2:1	4.2:1	13.8:1	29.2:1	685	1510	5.4	11.9	74	2 <sup>15</sup> / <sub>16</sub>	138	5 <sup>7</sup> / <sub>16</sub>	145.85	5 <sup>3</sup> / <sub>4</sub>	69	2 <sup>1</sup> / <sub>16</sub>	8-12	5/16-1/2
49540055	40ST	ALLOY BLACK	1.9:1	5.8:1	13.2:1	40.2:1	795	1753	4.9	10.7	74	2 <sup>15</sup> / <sub>16</sub>	148	5 <sup>13</sup> / <sub>16</sub>	158.5	6 <sup>1</sup> / <sub>4</sub>	79	3 <sup>3</sup> / <sub>8</sub>	8-12	5/16-1/2
49540057	40ST	ALLOY GREY	1.9:1	5.8:1	13.2:1	40.2:1	795	1753	4.9	10.7	74	2 <sup>15</sup> / <sub>16</sub>	148	5 <sup>13</sup> / <sub>16</sub>	158.5	6 <sup>1</sup> / <sub>4</sub>	79	3 <sup>3</sup> / <sub>8</sub>	8-12	5/16-1/2
49540056	40ST	CHROME BRONZE	1.9:1	5.8:1	13.2:1	40.2:1	795	1753	6.5	14.3	74	2 <sup>15</sup> / <sub>16</sub>	148	5 <sup>13</sup> / <sub>16</sub>	158.5	6 <sup>1</sup> / <sub>4</sub>	79	3 <sup>3</sup> / <sub>8</sub>	8-12	5/16-1/2
49545055	45ST	ALLOY BLACK	2.4:1	7.6:1	13.9:1	44.8:1	1200	2646	7.1	15.6	87	3 <sup>7</sup> / <sub>16</sub>	168	6 <sup>5</sup> / <sub>8</sub>	177.7	7	84	3 <sup>5</sup> / <sub>16</sub>	8-14	5/16-9/16
49545057	45ST	ALLOY GREY	2.4:1	7.6:1	13.9:1	44.8:1	1200	2646	7.1	15.6	87	3 <sup>7</sup> / <sub>16</sub>	168	6 <sup>5</sup> / <sub>8</sub>	177.7	7	84	3 <sup>5</sup> / <sub>16</sub>	8-14	5/16-9/16
49545056	45ST	CHROME BRONZE	2.4:1	7.6:1	13.9:1	44.8:1	1200	2646	9.7	21.3	87	3 <sup>7</sup> / <sub>16</sub>	168	6 <sup>5</sup> / <sub>8</sub>	177.7	7	84	3 <sup>5</sup> / <sub>16</sub>	8-14	5/16-9/16
49550055	50ST	ALLOY BLACK	2.6:1	9:1	13.9:1	48.6:1	1250	2756	9	19.8	93	3 <sup>5</sup> / <sub>8</sub>	181	7 <sup>1</sup> / <sub>8</sub>	197	7 <sup>3</sup> / <sub>4</sub>	90	3 <sup>1</sup> / <sub>2</sub>	8-14	5/16-9/16
49550057	50ST	ALLOY GREY	2.6:1	9:1	13.9:1	48.6:1	1250	2756	9	19.8	93	3 <sup>5</sup> / <sub>8</sub>	181	7 <sup>1</sup> / <sub>8</sub>	197	7 <sup>3</sup> / <sub>4</sub>	90	3 <sup>1</sup> / <sub>2</sub>	8-14	5/16-9/16
49550056	50ST	CHROME BRONZE	2.6:1	9:1	13.9:1	48.6:1	1250	2756	12.3	27	93	3 <sup>5</sup> / <sub>8</sub>	181	7 <sup>1</sup> / <sub>8</sub>	197	7 <sup>3</sup> / <sub>4</sub>	90	3 <sup>1</sup> / <sub>2</sub>	8-14	5/16-9/16
49555055	55ST	ALLOY BLACK	2.8:1	11.2:1	13.8:1	54:1	1480	3263	12.2	26.9	105	4 <sup>1</sup> / <sub>8</sub>	205	8 <sup>1</sup> / <sub>16</sub>	233	9 <sup>1</sup> / <sub>32</sub>	115	4 <sup>1</sup> / <sub>2</sub>	8-16	5/16-5/8
49555057	55ST	ALLOY GREY	2.8:1	11.2:1	13.8:1	54:1	1480	3263	12.2	26.9	105	4 <sup>1</sup> / <sub>8</sub>	205	8 <sup>1</sup> / <sub>16</sub>	233	9 <sup>1</sup> / <sub>32</sub>	115	4 <sup>1</sup> / <sub>2</sub>	8-16	5/16-5/8
49555056	55ST	CHROME BRONZE	2.8:1	11.2:1	13.8:1	54:1	1480	3263	18	39.6	105	4 <sup>1</sup> / <sub>8</sub>	205	8 <sup>1</sup> / <sub>16</sub>	233	9 <sup>1</sup> / <sub>32</sub>	115	4 <sup>1</sup> / <sub>2</sub>	8-16	5/16-5/8
49565055	65ST	ALLOY BLACK	3.1:1	14.8:1	13.4:1	64:1	1700	3748	16.6	36.5	118	4 <sup>5</sup> / <sub>8</sub>	228	9	251	9 <sup>7</sup> / <sub>8</sub>	119	4 <sup>1</sup> / <sub>16</sub>	8-18	5/16-11/16
49565057	65ST	ALLOY GREY	3.1:1	14.8:1	13.4:1	64:1	1700	3748	16.6	36.5	118	4 <sup>5</sup> / <sub>8</sub>	228	9	251	9 <sup>7</sup> / <sub>8</sub>	119	4 <sup>1</sup> / <sub>16</sub>	8-18	5/16-11/16
49565056	65ST	CHROME BRONZE	3.1:1	14.8:1	13.4:1	64:1	1700	3748	23.8	52.4	118	4 <sup>5</sup> / <sub>8</sub>	228	9	251	9 <sup>7</sup> / <sub>8</sub>	119	4 <sup>1</sup> / <sub>16</sub>	8-18	5/16-11/16

# 6. Winch



## Custom EVO® Winches

Lewmar Evo winches extend to size 80, 3 speed.

### Evo® Winch Electric Conversion Kit

- Upgrade your manual winch to an electric model with the Evo upgrade kit.
- The kit contains all you need to convert to an electric winch.
- Option for sizes 40 to 50 to have the contactor pre-mounted to the motor gearbox removing any complicated wiring for a tidier and easier installation. It only requires connecting the battery and the switch supplied.

WINCH SIZE	12V CONVERSION KIT CONTACTOR PRE-MOUNTED	12V CONVERSION KIT WITH SEPARATE CONTACTOR
40ST	48540301	48540300
45ST	48545301	48545300
50ST	48550301	48550300
55ST	-	48555300



Kit includes:

1



Power Drive

2



Motor Gearbox and Contactor

3

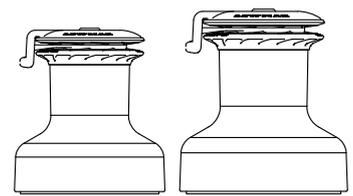


Circuit Breaker p220

4



Switch p221



70

80

### Custom EVO® Self-Tailing Winch Specifications

PART NO	MODEL	FINISH	GEAR RATIO		POWER RATIO		WLL		WEIGHT		D DRUM DIA		B BASE DIA		H HEIGHT		L LINE ENTRY		LINE SIZE	
			1ST	2ND	1ST	2ND	KG	LB	KG	LB	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
49570055	70ST	ALLOY BLACK	2.4:1	7.6:1	13.9:1	44.8:1	1200	2646	7.1	15.6	87	3 <sup>7</sup> / <sub>16</sub>	168	6 <sup>5</sup> / <sub>8</sub>	177.7	7	84	3 <sup>5</sup> / <sub>16</sub>	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>9</sup> / <sub>16</sub>
49570057	70ST	ALLOY GREY	2.4:1	7.6:1	13.9:1	44.8:1	1200	2646	7.1	15.6	87	3 <sup>7</sup> / <sub>16</sub>	168	6 <sup>5</sup> / <sub>8</sub>	177.7	7	84	3 <sup>5</sup> / <sub>16</sub>	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>9</sup> / <sub>16</sub>
49570056	70ST	CHROME BRONZE	2.4:1	7.6:1	13.9:1	44.8:1	1200	2646	9.7	21.3	87	3 <sup>7</sup> / <sub>16</sub>	168	6 <sup>5</sup> / <sub>8</sub>	177.7	7	84	3 <sup>5</sup> / <sub>16</sub>	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>9</sup> / <sub>16</sub>
49570065	70/3ST	ALLOY BLACK	2.6:1	9:1	13.9:1	48.6:1	1250	2756	9	19.8	93	3 <sup>5</sup> / <sub>8</sub>	181	7 <sup>1</sup> / <sub>8</sub>	197	7 <sup>3</sup> / <sub>4</sub>	90	3 <sup>1</sup> / <sub>2</sub>	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>9</sup> / <sub>16</sub>
49570067	70/3ST	ALLOY GREY	2.6:1	9:1	13.9:1	48.6:1	1250	2756	9	19.8	93	3 <sup>5</sup> / <sub>8</sub>	181	7 <sup>1</sup> / <sub>8</sub>	197	7 <sup>3</sup> / <sub>4</sub>	90	3 <sup>1</sup> / <sub>2</sub>	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>9</sup> / <sub>16</sub>
49570066	70/3ST	CHROME BRONZE	2.6:1	9:1	13.9:1	48.6:1	1250	2756	12.3	27	93	3 <sup>5</sup> / <sub>8</sub>	181	7 <sup>1</sup> / <sub>8</sub>	197	7 <sup>3</sup> / <sub>4</sub>	90	3 <sup>1</sup> / <sub>2</sub>	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>9</sup> / <sub>16</sub>
CONTACT LEWMAR	80ST	ALLOY BLACK	2.8:1	11.2:1	13.8:1	54:1	1480	3263	12.2	26.9	105	4 <sup>1</sup> / <sub>8</sub>	205	8 <sup>1</sup> / <sub>16</sub>	233	9 <sup>1</sup> / <sub>32</sub>	115	4 <sup>1</sup> / <sub>2</sub>	8-16	5 <sup>1</sup> / <sub>16</sub> -5 <sup>5</sup> / <sub>8</sub>
	80ST	ALLOY GREY	2.8:1	11.2:1	13.8:1	54:1	1480	3263	12.2	26.9	105	4 <sup>1</sup> / <sub>8</sub>	205	8 <sup>1</sup> / <sub>16</sub>	233	9 <sup>1</sup> / <sub>32</sub>	115	4 <sup>1</sup> / <sub>2</sub>	8-16	5 <sup>1</sup> / <sub>16</sub> -5 <sup>5</sup> / <sub>8</sub>
	80ST	CHROME BRONZE	2.8:1	11.2:1	13.8:1	54:1	1480	3263	18	39.6	105	4 <sup>1</sup> / <sub>8</sub>	205	8 <sup>1</sup> / <sub>16</sub>	233	9 <sup>1</sup> / <sub>32</sub>	115	4 <sup>1</sup> / <sub>2</sub>	8-16	5 <sup>1</sup> / <sub>16</sub> -5 <sup>5</sup> / <sub>8</sub>
49580065	80/3ST	ALLOY BLACK	3.1:1	14.8:1	13.4:1	64:1	1700	3748	16.6	36.5	118	4 <sup>5</sup> / <sub>8</sub>	228	9	251	9 <sup>7</sup> / <sub>8</sub>	119	4 <sup>1</sup> / <sub>16</sub>	8-18	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>16</sub>
49580067	80/3ST	ALLOY GREY	3.1:1	14.8:1	13.4:1	64:1	1700	3748	16.6	36.5	118	4 <sup>5</sup> / <sub>8</sub>	228	9	251	9 <sup>7</sup> / <sub>8</sub>	119	4 <sup>1</sup> / <sub>16</sub>	8-18	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>16</sub>
49580066	80/3ST	CHROME BRONZE	3.1:1	14.8:1	13.4:1	64:1	1700	3748	23.8	52.4	118	4 <sup>5</sup> / <sub>8</sub>	228	9	251	9 <sup>7</sup> / <sub>8</sub>	119	4 <sup>1</sup> / <sub>16</sub>	8-18	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>16</sub>



## EVO® Electric Winches

A Self-Tailing EVO® Winch that works at the push of a button is exactly what you will find with Lewmar's electric winch range. Whether you buy an electrically-operated winch complete or retrofit the compact electric motor/controller unit, the electric EVO® provides improved sail control.

- Push button power
- Quiet operation
- Manual override
- Easy to install
- Featuring powerful series wound motors
- Choice of two levels of control: E Series or Electric Load Sensing (ELS)

### EVO® Electric Winch Kit

The kit contains all you need to install your electric winch.



### EVO® Electric Winch Kits

PART NUMBER		DESCRIPTION
12 VOLTS	24 VOLTS	
49540219	-	40EST ALLOY BLACK ELECTRIC WINCH KIT
49540218	-	40EST CHROME BRONZE ELECTRIC WINCH KIT
49540217	-	40EST ALLOY GREY ELECTRIC WINCH KIT
49545219	-	45EST ALLOY BLACK ELECTRIC WINCH KIT
49545218	-	45EST CHROME BRONZE ELECTRIC WINCH KIT
49545217	-	45EST ALLOY GREY ELECTRIC WINCH KIT
49550219	-	50EST ALLOY BLACK ELECTRIC WINCH KIT
49550218	-	50EST CHROME BRONZE ELECTRIC WINCH KIT
49550217	-	50EST ALLOY GREY ELECTRIC WINCH KIT
49555210	49555230	55EST ALLOY BLACK ELECTRIC WINCH KIT
49555201	49555221	55EST CHROME BRONZE ELECTRIC WINCH KIT
49555200	49555220	55EST ALLOY GREY ELECTRIC WINCH KIT
49565210	49565230	65EST ALLOY BLACK ELECTRIC WINCH KIT
49565201	49565221	65EST CHROME BRONZE ELECTRIC WINCH KIT
49565200	49565220	65EST ALLOY GREY ELECTRIC WINCH KIT
-	49570230	70EST ALLOY BLACK ELECTRIC WINCH KIT
-	49570221	70EST CHROME BRONZE ELECTRIC WINCH KIT
-	49570220	70EST ALLOY GREY ELECTRIC WINCH KIT
-	49570211	70/3EST ALLOY BLACK ELECTRIC WINCH KIT
-	49570212	70/3EST CHROME BRONZE ELECTRIC WINCH KIT
-	49570213	70/3EST ALLOY GREY ELECTRIC WINCH KIT
-	49580230	80EST ALLOY BLACK ELECTRIC WINCH KIT
-	49580221	80EST CHROME BRONZE ELECTRIC WINCH KIT
-	49580220	80EST ALLOY GREY ELECTRIC WINCH KIT
-	49580211	80/3EST ALLOY BLACK ELECTRIC WINCH KIT
-	49580212	80/3EST CHROME BRONZE ELECTRIC WINCH KIT
-	49580213	80/3EST ALLOY GREY ELECTRIC WINCH KIT

# 6. Winch

## Specify Your Own Electric Winch

### 1 Deck Unit



### 2 Motor Gearbox



### 3 Contactor/Control Box



p220

### 4 Accessories



p221

## 1 Electric Winch Deck Unit

### Electric Winch

PART NUMBER	MODEL	FINISH	WEIGHT	
			KG	LB
48540210	40 EST	ALLOY BLACK	17.8	39.3
48540201	40 EST	CHROME	19.5	43.0
48540200	40 EST	ALLOY GREY	17.8	39.3
48545210	45 EST	ALLOY BLACK	22.1	48.6
48545201	45 EST	CHROME	24.6	54.1
48545200	45 EST	ALLOY GREY	22.1	48.6
48550210	50 EST	ALLOY BLACK	24.7	54.3
48550201	50 EST	CHROME	28.1	61.8
48550200	50 EST	ALLOY GREY	24.7	54.3
48555210	55 EST	ALLOY BLACK	29.0	63.8
48555201	55 EST	CHROME	34.8	76.5
48555200	55 EST	ALLOY GREY	29.0	63.8
48565210	65 EST	ALLOY BLACK	33.6	73.9
48565201	65 EST	CHROME	40.8	89.7
48565200	65 EST	ALLOY GREY	33.6	73.9

### Custom Electric Winch

PART NUMBER	MODEL	FINISH	WEIGHT	
			KG	LB
48570210	70 EST	ALLOY BLACK	42.0	92.6
48570201	70 EST	CHROME	48.8	107.6
48570200	70 EST	ALLOY GREY	42.0	92.6
48570208	70/3 EST	ALLOY BLACK	48.0	105.8
48570207	70/3 EST	CHROME	54.8	120.8
48570206	70/3 EST	ALLOY GREY	48.0	105.8
48580210	80 EST	ALLOY BLACK	49.3	108.7
48580201	80 EST	CHROME	55.3	121.9
48580200	80 EST	ALLOY GREY	49.3	108.7
48580208	80/3 EST	ALLOY BLACK	51.3	113.1
48580207	80/3 EST	CHROME	57.3	126.3
48580206	80/3 EST	ALLOY GREY	51.3	113.1

NOTES: WEIGHTS SHOWN ABOVE INCLUDES THE WEIGHT OF MOTOR GEARBOX & CONTROL BOX.

## 2 Motor Gearbox

PART NUMBER	DESCRIPTION	MOTOR (Watt)								
			40ST	45ST	50ST	55ST	65ST	70-70/3	80-80/3	
48000116	40-50 12V M/GBOX ASSY	700	•	•	•					
48000117	40-50 24V M/GBOX ASSY	900	•	•	•					
48000075	55-65 12V M/GBOX ASSY	1600				•	•			
48000076	55-65 24V M/GBOX ASSY	2000				•	•			
48000077	70-80 12V M/GBOX ASSY	1600						•	•	
48000078	70-80 24V M/GBOX ASSY	2000						•	•	



### Electric motor including contactor

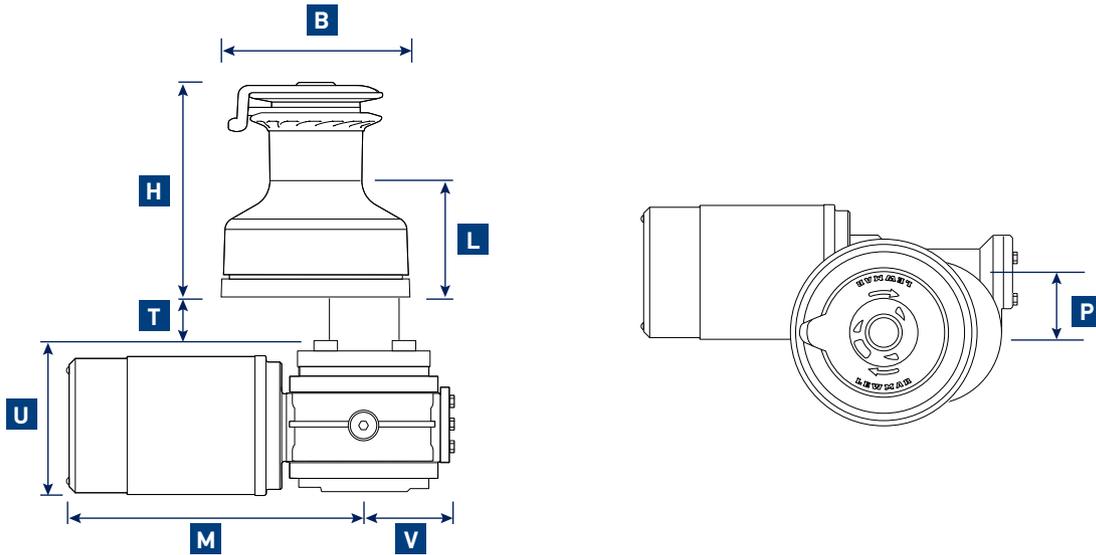
Lewmar can also supply motor gearboxes with the E-series contactor pre-mounted. This convenient solution removes any complicated wiring for an easier installation. The complete wiring is reduced to connecting the battery and the switch.

PART NUMBER	DESCRIPTION	MOTOR (Watt)			
			40ST	45ST	50ST
48000211	12V PRE-WIRED M/GBOX	700	•	•	•
48000212	24V PRE-WIRED M/GBOX	900	•	•	•



## Electric Winch Dimensions

When installing a winch, Lewmar recommends the winch be mounted on a level surface and that the rope enters the drum at an angle of 5° to 10° to the base axis of the winch. This angle can be achieved by using a base wedge when mounting the winch.



WINCH SIZE	H HEIGHT		L LINE ENTRY		M		P		T		U		V		B BASE DIA	
	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
40EST	175	6 9/10	95	3 49/64	239	9 25/64	50	1 31/32	34.4	1 23/64	120.7	2 3/4	72.5	2 55/64	154	6 1/16
45EST	194	7 5/8	100	3 61/64	239	9 25/64	50	1 31/32	64.4	2 17/32	120.7	2 3/4	72.5	2 55/64	174	6 55/64
50EST	247	9 2/3	105	4 9/64	239	9 25/64	50	1 31/32	64.4	2 17/32	120.7	2 3/4	72.5	2 55/64	186	7 21/64
55EST	258	10 1/8	136	5 3/8	290	11 7/16	62	2 7/16	59.5	2 5/16	160	6 1/4	80	3 1/8	209	8 1/4
65EST	274	10 3/4	142	5 9/16	290	11 7/16	62	2 7/16	59.5	2 5/16	160	6 1/4	80	3 1/8	234	9 1/4
70EST	274	10 13/16	142	5 5/8	290	11 7/16	62	2 7/16	67.5	2 11/16	160	6 1/4	80	3 1/8	282	11 1/8
70/3EST	319	12 9/16	186	7 5/16	290	11 7/16	62	2 7/16	67.5	2 11/16	160	6 1/4	80	3 1/8	294	11 9/16
80EST	320	12 10/16	174	6 7/8	290	11 7/16	62	2 7/16	67.5	2 11/16	160	6 1/4	80	3 1/8	294	11 9/16
80/3EST	320	12 10/16	174	6 7/8	290	11 7/16	62	2 7/16	67.5	2 11/16	160	6 1/4	80	3 1/8	294	11 9/16
90EST	327	12 7/8	160	6 1/4	290	11 7/16	62	2 7/16	-	-	-	-	-	-	326	12 3/4

## Mounting Instructions

40EST	5 X M6 (1/2 IN) C'SK HEAD SCREWS ON 121MM (4 3/4 IN) PCD
45EST	5 X M8 (5/16 IN) C'SK HEAD SCREWS ON 136MM (5 11/32 IN) PCD
50EST	6 X M8 (5/16 IN) C'SK HEAD SCREWS ON 150MM (5 29/32 IN) PCD
55EST	6 X M8 (5/16 IN) C'SK HEAD SCREWS ON 165MM (6 1/2 IN) PCD
65EST	5 X M10 (3/8 IN) C'SK HEAD SCREWS ON 184MM (7 1/4 IN) PCD
70EST	6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 241MM (9 1/2 IN) PCD
70/3EST	6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 241MM (9 1/2 IN) PCD
80EST	6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 241MM (9 1/2 IN) PCD
80/3EST	6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 241MM (9 1/2 IN) PCD
90/3EST	8 X M10 (3/8 IN) C'SK HEAD SCREWS ON 270MM (10 5/8 IN) PCD

NOTE: NOT ALL HOLES ARE SYMMETRICAL ON ALL MODELS

# 6. Winch



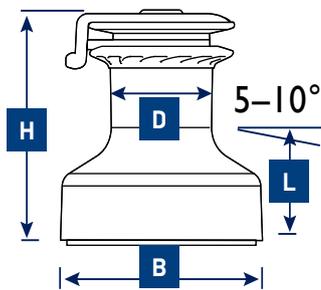
## EVO® Race Winches

The new EVO® Race winches combine EVO® architecture with all-new top components to offer a sleek, race look. Significant weight savings are made through the use of an aluminium drum.

- No tools required for servicing
- Cast aluminium feeder arm
- Black anodised drum
- Carbon fibre top inlay feature
- Silver trim band and white decals



Dimensions Diagram EVO® Race Winch



### EVO® Race Self-Tailing Winch Specifications

PART NO	SIZE	GEAR RATIO		POWER RATIO		WLL		WEIGHT		D DRUM DIA		B BASE DIA		H HEIGHT		L LINE ENTRY		LINE SIZE	
		1ST	2ND	1ST	2ND	KG	LB	KG	LB	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
49730055	30ST	2:1	4.2:1	13.8:1	29.2:1	685	1510	4	8.8	74	2 <sup>15</sup> / <sub>16</sub>	138	5 <sup>7</sup> / <sub>16</sub>	145.85	5 <sup>3</sup> / <sub>4</sub>	69	2 <sup>11</sup> / <sub>16</sub>	8-12	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>2</sub>
49740055	40ST	1.9:1	5.8:1	13.2:1	40.2:1	795	1753	4.9	10.7	74	2 <sup>15</sup> / <sub>16</sub>	148	5 <sup>13</sup> / <sub>16</sub>	158.5	6 <sup>1</sup> / <sub>4</sub>	79	3 <sup>1</sup> / <sub>8</sub>	8-12	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>2</sub>
49745055	45ST	2.4:1	7.6:1	13.9:1	44.8:1	1200	2646	7.1	15.6	87	3 <sup>7</sup> / <sub>16</sub>	168	6 <sup>5</sup> / <sub>8</sub>	177.7	7	84	3 <sup>5</sup> / <sub>16</sub>	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>1</sup> / <sub>16</sub>
49750055	50ST	2.6:1	9:1	13.9:1	48.6:1	1250	2756	9	19.8	93	3 <sup>5</sup> / <sub>8</sub>	181	7 <sup>1</sup> / <sub>8</sub>	197	7 <sup>3</sup> / <sub>4</sub>	90	3 <sup>1</sup> / <sub>2</sub>	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>1</sup> / <sub>16</sub>
49755055	55ST	2.8:1	11.2:1	13.8:1	54:1	1480	3263	12.2	26.9	105	4 <sup>1</sup> / <sub>8</sub>	205	8 <sup>1</sup> / <sub>16</sub>	233	9 <sup>1</sup> / <sub>32</sub>	115	4 <sup>1</sup> / <sub>2</sub>	8-16	5 <sup>1</sup> / <sub>16</sub> -5 <sup>5</sup> / <sub>8</sub>



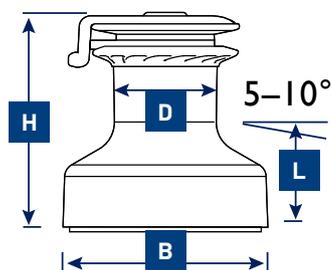
## Lewmar EVO<sup>®</sup> Race+<sup>™</sup> Winch

Lewmar's EVO<sup>®</sup> Race+<sup>™</sup> winches use a lightweight cast aluminium base stem and machined aluminium upper stem, together with other advanced material choices, to offer significant weight savings over standard EVO<sup>®</sup> winches.

- Lightweight centre stem
- Lightened main spindle
- Cast aluminium feeder arm
- Composite bearing technology
- "No tools" servicing
- Carbon fibre inlay
- Silver trim stripe
- White pad-printed decals
- Black anodised drum



Dimensions Diagram EVO<sup>®</sup> Race+<sup>™</sup> Winch



### EVO<sup>®</sup> Race+<sup>™</sup> Self-Tailing Winch Specifications

PART NO	SIZE	GEAR RATIO		POWER RATIO		WLL		WEIGHT		D DRUM DIA		B BASE DIA		H HEIGHT		L LINE ENTRY		LINE SIZE	
		1ST	2ND	1ST	2ND	KG	LB	KG	LB	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
49940055	40ST	1.9:1	5.8:1	13.2:1	40.2:1	795	1753	3.6	7.9	74	2 <sup>15</sup> / <sub>16</sub>	148	5 <sup>13</sup> / <sub>16</sub>	158.5	6 <sup>1</sup> / <sub>4</sub>	79	3 <sup>1</sup> / <sub>8</sub>	8-12	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>2</sub>
49945055	45ST	2.4:1	7.6:1	13.9:1	44.8:1	1200	2646	4.8	10.5	87	3 <sup>7</sup> / <sub>16</sub>	168	6 <sup>5</sup> / <sub>8</sub>	177.7	7	84	3 <sup>5</sup> / <sub>16</sub>	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>1</sup> / <sub>16</sub>
49950055	50ST	2.6:1	9:1	13.9:1	48.6:1	1250	2756	6.3	13.9	93	3 <sup>5</sup> / <sub>8</sub>	181	7 <sup>1</sup> / <sub>8</sub>	197	7 <sup>3</sup> / <sub>4</sub>	90	3 <sup>1</sup> / <sub>2</sub>	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>1</sup> / <sub>16</sub>
49955055	55ST	2.8:1	11.2:1	13.8:1	54:1	1480	3263	8.3	18.3	105	4 1/8	205	8 1/16	250	9 <sup>13</sup> / <sub>16</sub>	115	4 1/2	8-16	5 <sup>1</sup> / <sub>16</sub> -5/8

## 6. Winch



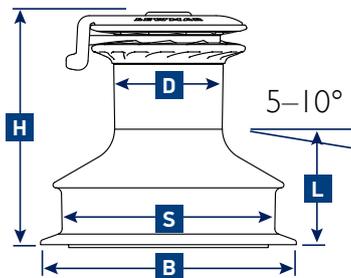
### EVO® Speed Ring Winch

EVO® Speed Ring racing winches offer all the features of the EVO® Range with the additional benefit of two drum diameters. The larger drum offers increased line speeds associated with fast asymmetric spinnaker gybes or hoists while the standard size drum allows fine tuning, removing the need for additional winches.

- Easy servicing – no tools required
- Available in black or grey alloy finish
- Features two drum diameters for greater control



Dimensions Diagram EVO® Speed Ring Winch



### EVO® Speed Ring Winch Specifications

PART NO	SIZE	FINISH	GEAR RATIO		POWER RATIO		SPEED RING POWER RATIO		WLL		WEIGHT		D DRUM DIA		S SPEED RING DIA		B BASE DIA		H HEIGHT		L LINE ENTRY		LINE SIZE	
			1ST	2ND	1ST	2ND	1ST	2ND	KG	LB	KG	LB	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
49540085	40	BLACK	1.9:1	5.8:1	13.2:1	40.2:1	6.6:1	20.3:1	795	1753	4.9	10.7	74	2 <sup>15</sup> / <sub>16</sub>	145.5	5 <sup>3</sup> / <sub>4</sub>	148	5 <sup>13</sup> / <sub>16</sub>	158.5	6 <sup>1</sup> / <sub>4</sub>	79	3 <sup>1</sup> / <sub>8</sub>	8-12	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>2</sub>
49540087	40	GREY	1.9:1	5.8:1	13.2:1	40.2:1	6.6:1	20.3:1	795	1753	4.9	10.7	74	2 <sup>15</sup> / <sub>16</sub>	145.5	5 <sup>3</sup> / <sub>4</sub>	148	5 <sup>13</sup> / <sub>16</sub>	158.5	6 <sup>1</sup> / <sub>4</sub>	79	3 <sup>1</sup> / <sub>8</sub>	8-12	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>2</sub>
49545085	45	BLACK	2.36:1	8.0:1	13.86:1	46.8:1	7:1	22.6:1	1200	2643	7.6	16.7	86.8	3 <sup>7</sup> / <sub>16</sub>	170.5	6 <sup>3</sup> / <sub>4</sub>	205	8	177.5	7	84.5	3 <sup>5</sup> / <sub>16</sub>	8-12	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>2</sub>
49545087	45	GREY	2.36:1	8.0:1	13.86:1	46.8:1	7:1	22.6:1	1200	2643	7.6	16.7	86.8	3 <sup>7</sup> / <sub>16</sub>	170.5	6 <sup>3</sup> / <sub>4</sub>	205	8	177.5	7	84.5	3 <sup>5</sup> / <sub>16</sub>	8-12	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>2</sub>



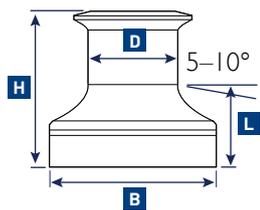
## EVO® Sport Winch

The EVO® Sport complements the EVO® Winch Range. Best suited for sport boats requiring constant trimming, and where weight consideration is a premium. The EVO® Sport is also suitable as a mast mounted winch.

- Architecture based on self tailing EVO® Winch
- Tool-free servicing
- Size 30 and 40 can be converted into an EVO® Self tailing winch retrospectively
- Size 40 convertible to electric
- Choice of finishes: Black alloy or Chrome bronze
- Available in size 6 to size 40



### Dimensions Diagram EVO® Sport Winch



### EVO® Sport Winch Specifications

PART NO	MODEL	FINISH	GEAR RATIO		POWER RATIO		WLL		WEIGHT		D DRUM DIA		B BASE DIA		H HEIGHT		L LINE ENTRY		MOUNTING INSTRUCTIONS
			1ST	2ND	1ST	2ND	KG	LB	KG	LB	MM	IN	MM	IN	MM	IN	MM	IN	
49006075	6	ALLOY BLACK	1:1	-	6.8:1	-	341	752	0.5	1.1	59	2 <sup>5</sup> / <sub>16</sub>	94	3 <sup>11</sup> / <sub>16</sub>	83	3 <sup>3</sup> / <sub>4</sub>	35.5	1 <sup>3</sup> / <sub>8</sub>	4 X M6 (1/4 IN) C'SK HEAD SCREWS ON 66MM (2 <sup>19</sup> / <sub>32</sub> IN) PCD
19006100	6	CHROME	1:1	-	6.8:1	-	341	752	1.1	2.4	59	2 <sup>5</sup> / <sub>16</sub>	94	3 <sup>11</sup> / <sub>16</sub>	83	3 <sup>3</sup> / <sub>4</sub>	35.5	1 <sup>3</sup> / <sub>8</sub>	
49507075	7	ALLOY BLACK	1:1	-	7.9:1	-	341	752	0.8	1.8	65	2 <sup>9</sup> / <sub>16</sub>	108	4 <sup>1</sup> / <sub>4</sub>	102	4	40	1 <sup>9</sup> / <sub>16</sub>	5 X M6 (1/4 IN) C'SK HEAD SCREWS ON 80MM (3 <sup>5</sup> / <sub>32</sub> IN) PCD
49507076	7	CHROME	1:1	-	7.9:1	-	341	752	1.7	3.7	65	2 <sup>9</sup> / <sub>16</sub>	108	4 <sup>1</sup> / <sub>4</sub>	102	4	40	1 <sup>9</sup> / <sub>16</sub>	
49508075	8	ALLOY BLACK	1:1	-	7.9:1	-	455	1003	1.4	3.1	65	2 <sup>9</sup> / <sub>16</sub>	108	4 <sup>1</sup> / <sub>4</sub>	103	4 <sup>1</sup> / <sub>16</sub>	40	1 <sup>9</sup> / <sub>16</sub>	5 X M6 (1/4 IN) C'SK HEAD SCREWS ON 80MM (3 <sup>5</sup> / <sub>32</sub> IN) PCD
49508076	8	CHROME	1:1	-	7.9:1	-	455	1003	2.3	5.1	65	2 <sup>9</sup> / <sub>16</sub>	108	4 <sup>1</sup> / <sub>4</sub>	103	4 <sup>1</sup> / <sub>16</sub>	40	1 <sup>9</sup> / <sub>16</sub>	
49516075	15	ALLOY BLACK	1:1	2:1	7.9:1	16:1	570	1257	2.1	4.6	67	2 <sup>5</sup> / <sub>8</sub>	120	4 <sup>3</sup> / <sub>4</sub>	112	4 <sup>7</sup> / <sub>16</sub>	55	2 <sup>3</sup> / <sub>16</sub>	5 X M6 (1/4 IN) C'SK HEAD SCREWS ON 94MM (3 <sup>11</sup> / <sub>16</sub> IN) PCD
49516076	15	CHROME	1:1	2:1	7.9:1	16:1	570	1257	3.2	7.0	67	2 <sup>5</sup> / <sub>8</sub>	120	4 <sup>3</sup> / <sub>4</sub>	112	4 <sup>7</sup> / <sub>16</sub>	55	2 <sup>3</sup> / <sub>16</sub>	
49530075	30	ALLOY BLACK	2:1	4.2:1	13.8:1	29.2:1	685	1510	3.9	8.6	74	2 <sup>15</sup> / <sub>16</sub>	138	5 <sup>7</sup> / <sub>16</sub>	145.85	5 <sup>3</sup> / <sub>4</sub>	69	2 <sup>11</sup> / <sub>16</sub>	5 X M6 (1/2 IN) C'SK HEAD SCREWS ON 113MM (4 <sup>19</sup> / <sub>32</sub> IN) PCD
49530076	30	CHROME	2:1	4.2:1	13.8:1	29.2:1	685	1510	5.8	12.8	74	2 <sup>15</sup> / <sub>16</sub>	138	5 <sup>7</sup> / <sub>16</sub>	145.85	5 <sup>3</sup> / <sub>4</sub>	69	2 <sup>11</sup> / <sub>16</sub>	
49540075	40	ALLOY BLACK	1.9:1	5.8:1	13.2:1	40.2:1	795	1753	5.5	12.1	74	2 <sup>15</sup> / <sub>16</sub>	148	5 <sup>13</sup> / <sub>16</sub>	158.5	6 <sup>1</sup> / <sub>4</sub>	79	3 <sup>1</sup> / <sub>8</sub>	5 X M6 (1/2 IN) C'SK HEAD SCREWS ON 121MM (4 <sup>7</sup> / <sub>32</sub> IN) PCD
49540076	40	CHROME	1.9:1	5.8:1	13.2:1	40.2:1	795	1753	7	15.4	74	2 <sup>15</sup> / <sub>16</sub>	148	5 <sup>13</sup> / <sub>16</sub>	158.5	6 <sup>1</sup> / <sub>4</sub>	79	3 <sup>1</sup> / <sub>8</sub>	

# 6. Winch



## Ocean Self-Tailing Winches

Lewmar's Ocean winch range is the most popular winch ever made. Its styling still attracts boat builders looking for a classic look, or boat owners looking to upgrade or replace their existing winches.

- Easy Servicing – no tools required
- Bronze finish also available - contact your retailer
- Convertable to electric from size 40 upwards
- Available in Size 16 to Size 65
- Solid construction respected by boat builders and sailors for generations



### Ocean Self-Tailing Winch Specifications

PART NO	MODEL	FINISH	GEAR RATIO		POWER RATIO		WLL		WEIGHT		DRUM DIA		BASE DIA		HEIGHT		ENTRY LINE		LINE SIZE	
			1ST	2ND	1ST	2ND	KG	LB	KG	LB	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
49016000	16ST	ALLOY GREY	2:1	-	15.8:1	-	570	1257	2.9	6.4	65.7	2 <sup>9</sup> / <sub>16</sub>	121	4 <sup>3</sup> / <sub>4</sub>	145.5	5 <sup>3</sup> / <sub>4</sub>	58	2 <sup>9</sup> / <sub>16</sub>	8-12	5/ <sub>16</sub> -1/2
49016001	16ST	CHROME BRONZE	2:1	-	15.8:1	-	570	1257	3.9	8.6	65.7	2 <sup>9</sup> / <sub>16</sub>	121	4 <sup>3</sup> / <sub>4</sub>	145.5	5 <sup>3</sup> / <sub>4</sub>	58	2 <sup>9</sup> / <sub>16</sub>	8-12	5/ <sub>16</sub> -1/2
49030000	30ST	ALLOY GREY	2:1	4.2:1	13.8:1	29.2:1	685	1510	4.2	9.2	74	2 <sup>15</sup> / <sub>16</sub>	138	5 <sup>7</sup> / <sub>16</sub>	160.5	6 <sup>5</sup> / <sub>16</sub>	69	2 <sup>1</sup> / <sub>16</sub>	8-12	5/ <sub>16</sub> -1/2
49030001	30ST	CHROME BRONZE	2:1	4.2:1	13.8:1	29.2:1	685	1510	5.6	12.3	74	2 <sup>15</sup> / <sub>16</sub>	138	5 <sup>7</sup> / <sub>16</sub>	160.5	6 <sup>5</sup> / <sub>16</sub>	69	2 <sup>1</sup> / <sub>16</sub>	8-12	5/ <sub>16</sub> -1/2
49040055	40ST	ALLOY GREY	1.9:1	5.8:1	13.2:1	40.2:1	795	1753	4.9	10.7	74	2 <sup>15</sup> / <sub>16</sub>	148	5 <sup>13</sup> / <sub>16</sub>	173	6 <sup>13</sup> / <sub>16</sub>	79	3/ <sub>8</sub>	8-12	5/ <sub>16</sub> -1/2
49040056	40ST	CHROME BRONZE	1.9:1	5.8:1	13.2:1	40.2:1	795	1753	6.5	14.3	74	2 <sup>15</sup> / <sub>16</sub>	148	5 <sup>13</sup> / <sub>16</sub>	173	6 <sup>13</sup> / <sub>16</sub>	79	3/ <sub>8</sub>	8-12	5/ <sub>16</sub> -1/2
49046055	46ST	ALLOY GREY	2.4:1	7.6:1	13.9:1	44.8:1	1200	2646	7.2	15.8	87	3 <sup>7</sup> / <sub>16</sub>	168	6 <sup>5</sup> / <sub>8</sub>	192	7 <sup>9</sup> / <sub>16</sub>	84	3 <sup>5</sup> / <sub>16</sub>	8-14	5/ <sub>16</sub> -9/ <sub>16</sub>
49046056	46ST	CHROME BRONZE	2.4:1	7.6:1	13.9:1	44.8:1	1200	2646	9.7	21.3	87	3 <sup>7</sup> / <sub>16</sub>	168	6 <sup>5</sup> / <sub>8</sub>	192	7 <sup>9</sup> / <sub>16</sub>	84	3 <sup>5</sup> / <sub>16</sub>	8-14	5/ <sub>16</sub> -9/ <sub>16</sub>
49048055	48ST	ALLOY GREY	2.6:1	9:1	13.9:1	48.6:1	1250	2756	8.8	19.4	93	3 <sup>9</sup> / <sub>16</sub>	181	7/ <sub>8</sub>	208	8 <sup>3</sup> / <sub>16</sub>	86	3 <sup>7</sup> / <sub>8</sub>	8-14	5/ <sub>16</sub> -9/ <sub>16</sub>
49048056	48ST	CHROME BRONZE	2.6:1	9:1	13.9:1	48.6:1	1250	2756	12.1	26.7	93	3 <sup>9</sup> / <sub>16</sub>	181	7/ <sub>8</sub>	208	8 <sup>3</sup> / <sub>16</sub>	86	3 <sup>7</sup> / <sub>8</sub>	8-14	5/ <sub>16</sub> -9/ <sub>16</sub>
49050000	50ST	ALLOY GREY	2.8:1	10.5:1	13.8:1	50.6:1	1250	2756	11.3	24.9	105	4 <sup>1</sup> / <sub>8</sub>	200	7 <sup>7</sup> / <sub>8</sub>	238	9 <sup>3</sup> / <sub>8</sub>	106	4 <sup>3</sup> / <sub>16</sub>	8-16	5/ <sub>16</sub> -5/ <sub>8</sub>
49050001	50ST	CHROME BRONZE	2.8:1	10.5:1	13.8:1	50.6:1	1250	2756	16.3	35.9	105	4 <sup>1</sup> / <sub>8</sub>	200	7 <sup>7</sup> / <sub>8</sub>	238	9 <sup>3</sup> / <sub>8</sub>	106	4 <sup>3</sup> / <sub>16</sub>	8-16	5/ <sub>16</sub> -5/ <sub>8</sub>
49054000	54ST	ALLOY GREY	2.8:1	11.2:1	13.8:1	54:1	1480	3263	12.0	26.4	105	4 <sup>1</sup> / <sub>8</sub>	205	8 <sup>1</sup> / <sub>16</sub>	250	9 <sup>7</sup> / <sub>8</sub>	115	4 <sup>1</sup> / <sub>2</sub>	8-16	5/ <sub>16</sub> -5/ <sub>8</sub>
49054001	54ST	CHROME BRONZE	2.8:1	11.2:1	13.8:1	54:1	1480	3263	17.0	37.5	105	4 <sup>1</sup> / <sub>8</sub>	205	8 <sup>1</sup> / <sub>16</sub>	250	9 <sup>7</sup> / <sub>8</sub>	115	4 <sup>1</sup> / <sub>2</sub>	8-16	5/ <sub>16</sub> -5/ <sub>8</sub>
49058000	58ST	ALLOY GREY	3.1:1	13.5:1	13.5:1	58.1:1	1600	3524	14.3	31.5	118	4 <sup>5</sup> / <sub>8</sub>	228	9	266	10 <sup>1</sup> / <sub>2</sub>	118.5	4 <sup>11</sup> / <sub>16</sub>	8-18	5/ <sub>16</sub> -11/ <sub>16</sub>
49058001	58ST	CHROME BRONZE	3.1:1	13.5:1	13.5:1	58.1:1	1600	3524	20.8	45.8	118	4 <sup>5</sup> / <sub>8</sub>	228	9	266	10 <sup>1</sup> / <sub>2</sub>	118.5	4 <sup>11</sup> / <sub>16</sub>	8-18	5/ <sub>16</sub> -11/ <sub>16</sub>
49065000	65ST	ALLOY GREY	3.1:1	15.3:1	13.4:1	66:1	1700	3748	16.6	36.5	118	4 <sup>5</sup> / <sub>8</sub>	231	9 <sup>1</sup> / <sub>8</sub>	271	10 <sup>11</sup> / <sub>16</sub>	121.5	4 <sup>13</sup> / <sub>16</sub>	8-18	5/ <sub>16</sub> -11/ <sub>16</sub>
49065001	65ST	CHROME BRONZE	3.1:1	15.3:1	13.4:1	66:1	1700	3748	23.8	52.4	118	4 <sup>5</sup> / <sub>8</sub>	231	9 <sup>1</sup> / <sub>8</sub>	271	10 <sup>11</sup> / <sub>16</sub>	121.5	4 <sup>13</sup> / <sub>16</sub>	8-18	5/ <sub>16</sub> -11/ <sub>16</sub>

LARGER MODELS AVAILABLE - SEE CUSTOM WINCH SECTION P.104



### Mounting Instructions

OCEAN 16ST	5 X M6 (1/4 IN) C'SK HEAD SCREWS ON 94MM (3 11/16 IN) PCD
OCEAN 30ST	5 X M6 (1/4 IN) C'SK HEAD SCREWS ON 113MM (4 5/32 IN) PCD
OCEAN 40ST	5 X M6 (1/4 IN) C'SK HEAD SCREWS ON 121MM (4 3/4 IN) PCD
OCEAN 46ST	5 X M8 (5/16 IN) C'SK HEAD SCREWS ON 136MM (5 11/32 IN) PCD

OCEAN 48ST	5 X M8 (5/16 IN) C'SK HEAD SCREWS ON 150MM (5 29/32 IN) PCD
OCEAN 50-54ST	6 X M8 (5/16 IN) C'SK HEAD SCREWS ON 165MM (6 1/2 IN) PCD
OCEAN 58-65ST	5 X M10 (3/8 IN) C'SK HEAD SCREWS ON 184MM (7 1/4 IN) PCD



### Custom Options

Custom engraving option available on the upper crown for special one-off projects.

Please contact [custom@lewmar.com](mailto:custom@lewmar.com) for more details

### Ocean Winch Electric Conversion Kit

Upgrade your manual winch to an electric model with the Ocean upgrade kit. The kit contains all you need to convert your existing manual winch to an electric powered version.

PART NUMBER	DESCRIPTION
48040300	40ST 12V 'E' CONVERSION KIT
48046300	46ST 12V 'E' CONVERSION KIT
48048300	48ST 12V 'E' CONVERSION KIT
48050300	50ST 12V 'ELS' CONVERSION KIT
48054300	54ST 12V 'ELS' CONVERSION KIT
48058300	58ST 12V 'ELS' CONVERSION KIT

### Kit includes

<b>1</b>  Power Drive	<b>2</b>  Motor Gearbox	<b>3</b>  Contactor	<b>3</b>  Circuit Breaker	<b>4</b>  Switch
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## 6. Winch



### High Performance Winch Range

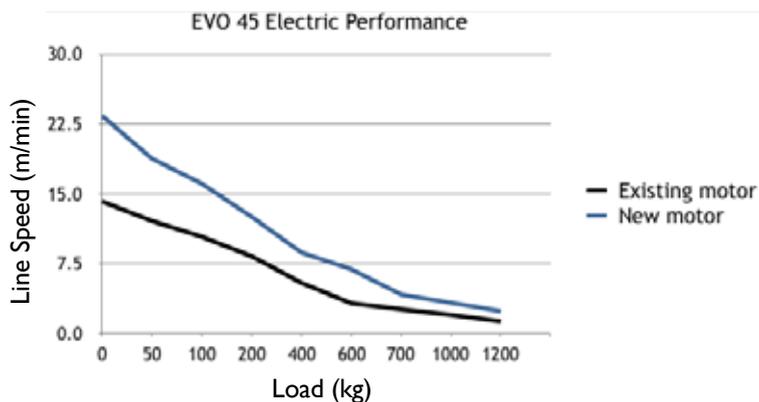
#### 40-65 EVO® High Performance Electric Range

With sailboat market trends focussed on easier sail handling and operation, there has been a significant increase in the quantity of electric winches being used on board.

Lewmar have developed a new, high performance solution, combining our EVO® deck unit with an optimised and upgraded motor gearbox package. In its high performance configuration, the EVO® can achieve an increase of up to 35% in line speed with up to 20% higher max pull.

The winch range is available in a variety of finishes including aluminium and chrome designs, offering tool-free servicing.

The high performance power unit is fully compatible with the existing EVO® electric range and is available as an optional upgrade from either manual winch or the conversion of an existing electric EVO®.

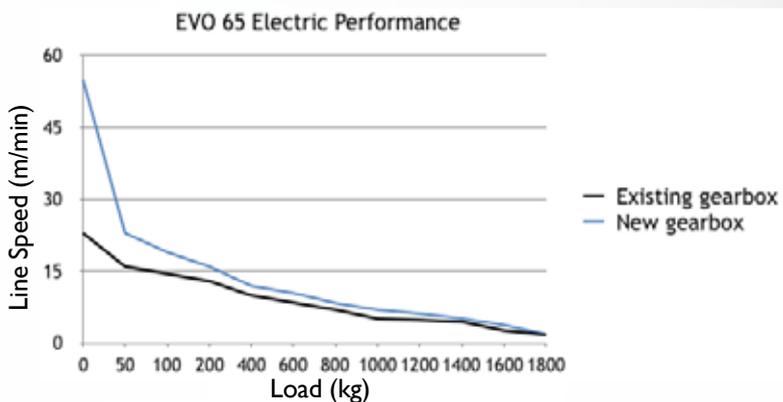




### 65 EVO<sup>®</sup> High Performance 2-Speed Electric Winch

Lewmar have further expanded our winch capabilities by developing a revolutionary 2-speed electric winch. Using innovative gearing design, Lewmar have built upon the strong EVO<sup>®</sup> platform to create a performance product with incredible versatility. In both electric and manual modes, the 65 EVO<sup>®</sup> 2-speed is designed for smoother trimming under high loads at faster line speeds.

- Increased line speed (43m/min)
- Increased pulling loads (2200kg WLL)
- Optional twin or single button fast sheet and slow trimming controls



## 6. Winch



### Hydraulic Winches

Lewmar's hydraulic powered winches combine the benefits of electric winches with system integration. The installation of a cost-effective, multi-function hydraulic system on boats over 15m (50ft) enables short-handed sailing through push-button control of winches and other integrated deck functions.

- Suitable for craft over 15m (50ft)
- Minimal internal space required for compact motor
- Low weight
- Manual override facility
- Quiet operation
- Push button control
- Choice of styling - Ocean traditional style available as well as the modern lines of the EVO® range

#### Push button control

Combining Lewmar's push button operation and Lewmar's Wavespring self-tailer produces simple hands free sailing whatever sheeting operation is to be carried out.

#### Manual override

Manual override can be effected simply and quickly through winch handle insertion.

#### Minimal space and weight

The hydraulic motor is extremely compact ensuring minimal internal space used, while being less obtrusive below deck. All achieved without compromising power.

#### Quiet operation

By using hydraulic power the winch operation is performed in near silence, adding to your sailing experience.



Hydraulic EVO®  
winch

## Hydraulic Winch Specifications

OCEAN WINCH PART NO	EVO WINCH PART NO	MODEL	FINISH	APPROXIMATE WEIGHT		LINE SIZE		MOUNTING INSTRUCTIONS
				KG	LB	MM	IN	
49046155	49545100	46HST OCEAN / 45HST EVO	ALLOY GREY	16	34	8-14	5/16-9/16	5 X M8 (5/16 IN) C'SK HEAD SCREWS ON 136MM (5 11/32 IN) PCD
49046156	495451**	46HST OCEAN / 45HST EVO	CHROME	18	41	8-14	5/16-9/16	
	495451**	45HST EVO	ALLOY BLACK	16	34	8-14	5/16-9/16	
49046158		46HST OCEAN	STAINLESS STEEL	18	40	8-14	5/16-9/16	
49046159		46HST OCEAN	ALL CHROME	19	42	8-14	5/16-9/16	
490481**	49550100	48HST OCEAN / 50HST EVO	ALLOY GREY	17	38	8-14	5/16-9/16	6 X M8 (5/16 IN) C'SK HEAD SCREWS ON 165MM (6 1/2 IN) PCD
49048156	49550101	48HST OCEAN / 50HST EVO	CHROME	21	46	8-14	5/16-9/16	
	49550110	50HST EVO	ALLOY BLACK	17	38	8-14	5/16-9/16	
49048158		48HST OCEAN	STAINLESS STEEL	20	45	8-14	5/16-9/16	
49048159		48HST OCEAN	ALL CHROME	22	48	8-14	5/16-9/16	
490501**		50HST OCEAN	ALLOY GREY	20	44	8-16	5/16-5/8	6 X M8 (5/16 IN) C'SK HEAD SCREWS ON 165MM (6 1/2 IN) PCD
49050101		50HST OCEAN	CHROME	25	54	8-16	5/16-5/8	
490501**		50HST OCEAN	STAINLESS STEEL	25	55	8-16	5/16-5/8	
49050103		50HST OCEAN	ALL CHROME	25	56	8-16	5/16-5/8	
49054100	49555100	54HST OCEAN / 55HST EVO	ALLOY GREY	21	45	8-16	5/16-5/8	
49054101	49555101	54HST OCEAN / 55HST EVO	CHROME	26	58	8-16	5/16-5/8	
	495551**	55HST EVO	ALLOY BLACK	21	45	8-16	5/16-5/8	
490541**		54HST OCEAN	STAINLESS STEEL	31	67	8-16	5/16-5/8	
49054103		54HST OCEAN	ALL CHROME	27	60	8-16	5/16-5/8	
49058100		58HST OCEAN	ALLOY GREY	23	50	8-18	5/16-11/16	5 X M10 (3/8 IN) C'SK HEAD SCREWS ON 184MM (7 1/4 IN) PCD
49058101		58HST OCEAN	CHROME	30	67	8-18	5/16-11/16	
49058104		58HST OCEAN	STAINLESS STEEL	29	63	8-18	5/16-11/16	
49058103		58HST OCEAN	ALL CHROME	31	73	8-18	5/16-11/16	
49065100	495651**	65HST OCEAN / EVO	ALLOY GREY	25	55	8-18	5/16-11/16	
49065101	49565101	65HST OCEAN / EVO	CHROME	32	71	8-18	5/16-11/16	
	495651**	65HST EVO	ALLOY BLACK	25	55	8-18	5/16-11/16	
49065104		65HST OCEAN	STAINLESS STEEL	32	70	8-18	5/16-11/16	
49065103		65HST OCEAN	ALL CHROME	31	73	8-18	5/16-11/16	
49068100	495701**	68HST OCEAN / 70HST EVO	ALLOY GREY	29	63	10-20	3/8-3/4	6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 241MM (9 1/2 IN) PCD
49068101	495701**	68HST OCEAN / 70HST EVO	CHROME	35	78	10-20	3/8-3/4	
	495701**	70HST EVO	ALLOY BLACK	29	63	10-20	3/8-3/4	
49068104		68HST OCEAN	STAINLESS STEEL	34	75	10-20	3/8-3/4	
49068103		68HST OCEAN	ALL CHROME	36	80	10-20	3/8-3/4	
49068105	495701**	68/3HST OCEAN / 70/3HST EVO	ALLOY GREY	40	88	10-20	3/8-3/4	6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 241MM (9 1/2 IN) PCD
49068106	495701**	68/3HST OCEAN / 70/3HST EVO	CHROME	42	93	10-20	3/8-3/4	
	495701**	70/3HST EVO	ALLOY BLACK	40	88	10-20	3/8-3/4	
49068109		68/3HST OCEAN	STAINLESS STEEL	40	88	10-20	3/8-3/4	
49068108		68/3HST OCEAN	ALL CHROME	42	93	10-20	3/8-3/4	
49077100	495801**	77HST OCEAN / 80HST EVO	ALLOY GREY	36	79	12-22	1/2-7/8	6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 241MM (9 1/2 IN) PCD
49077101	49580101	77HST OCEAN / 80HST EVO	CHROME	49	107	12-22	1/2-7/8	
	495801**	80HST EVO	ALLOY BLACK	36	79	12-22	1/2-7/8	
49077104		77HST OCEAN	STAINLESS STEEL	41	89	12-22	1/2-7/8	
49077103		77HST OCEAN	ALL CHROME	49	107	12-22	1/2-7/8	
49077105	49580102	77/3HST OCEAN / 80/3HST EVO	ALLOY GREY	42	92	12-22	1/2-7/8	6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 241MM (9 1/2 IN) PCD
49077106	495801**	77/3HST OCEAN / 80/3HST EVO	CHROME	50	110	12-22	1/2-7/8	
	495801**	80/3HST EVO	ALLOY BLACK	42	92	12-22	1/2-7/8	
49077109		77/3HST OCEAN	STAINLESS STEEL	42	92	12-22	1/2-7/8	
49077108		77/3HST OCEAN	ALL CHROME	50	110	12-22	1/2-7/8	

LARGER MODELS AVAILABLE - SEE CUSTOM WINCH SECTION P 104

## 6. Winch

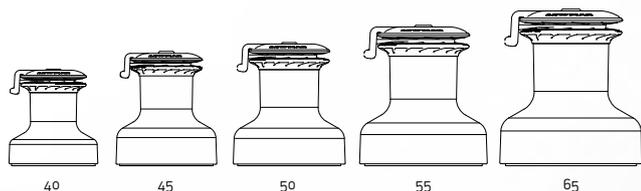


### REVO™ Backwinding Winch

Lewmar introduces a complete range of electrically-operated, backwinding winches. With the touch of a button, sailors are able to trim sails both in and out. Push one button and the winch sheets in quickly to the working load limit.

A well-specified motor removes the added complication of switching between slow and fast forward gears. Simply push another button to allow the winch to pay out line. The insertion of a winch handle automatically changes to a familiar two-speed manual operation.

- Available in five sizes (40, 45, 50, 55, 65)
- No modification to the standard bolting pattern and deck cut-outs
- Direct size for size upgrade from a standard electric EVO® winch to a REVO™ winch
- Uses proven winch internals to retain all the benefits of the EVO® Winch
- Simple two button operation, one to pull sheet in and another to pay out
- Operates as a normal two speed manual winch when a winch handle is inserted



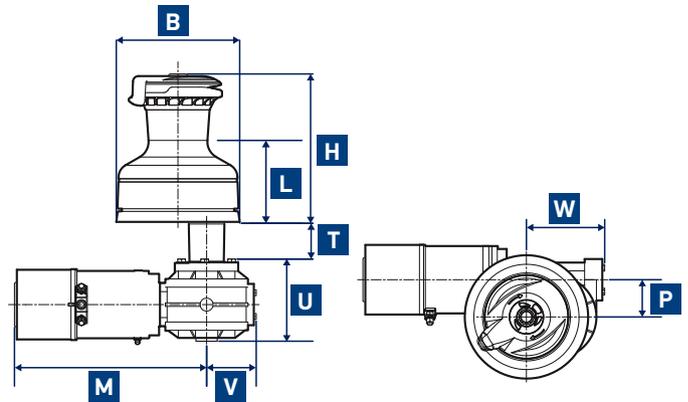


When back-winding, the REVO™ relies on load to strip the rope off the drum, thus avoiding tangles and ensuring rope is only released in the right circumstance.

In order to maximise the performance of the REVO™ winch, applications with minimal mechanical advantage are best, such as genoa/gennaker sheets. Purchase mainsheet systems may present too little load for the backwind feature to work.

In addition, small diameter, hi-tech lines are recommended.

Dimensions Diagram REVO™ Winch



SIZE	M		P		T		U		V		W	
	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
40	306	12 1/16	50	1 31/32	35	1 3/8	127	5	73	2 7/8	111	4 3/8
45	306	12 1/16	50	1 31/32	65	2 9/16	127	5	73	2 7/8	115	4 17/32
50	306	12 1/16	50	1 31/32	65	2 9/16	127	5	73	2 7/8	117	4 5/8
55	325	12 13/16	63	2 15/32	61	2 13/32	139	5 15/32	84	3 5/16	133	5 1/4
65	325	12 13/16	63	2 15/32	61	2 13/32	139	5 15/32	84	3 5/16	137	5 13/32

### REVO™ Winch Specifications

SIZE	ALLOY BLACK	ALLOY GREY	CHROME	WLL		WEIGHT ALLOY		WEIGHT CHROME		MTR/GBOX	MOTOR WATTS	B BASE DIA		H HEIGHT		L LINE ENTRY	
				KG	LB	KG	LB	KG	LB			MM	IN	MM	IN	MM	IN
				40	48340210	48340200	48340201	795	1749			18.8	41.4	20.5	45.1	48300014	700
45	48345210	48345200	48345201	1200	2640	23.1	50.8	25.6	56.3	48300014	700	174	6 27/32	193	7 19/32	103	4 1/16
50	48350210	48350200	48350201	1250	2750	25.7	56.5	29.1	64.0	48300014	700	186	7 11/32	215	8 15/32	109	4 9/32
55	48355210	48355200	48355201	1480	3256	30	66.0	35.8	78.8	48300016	1600	209	8 1/4	253	9 31/32	140	5 1/2
65	48365210	48365200	48365201	1700	3740	34.6	76.1	41.8	92.0	48300016	1600	234	9 7/32	268	10 9/16	144	5 11/16

# 6. Winch



## 3 Contactors & Control Boxes

### E-series

The E-series contactor is equipped with a thermal trip to monitor the motor temperature, which ensures a cut out if the heat builds up to an unacceptable level.

Available on the EVO® electric winch range 40, 45 & 50.

### Electric load sensing – ELS

Pioneered by Lewmar, ELS (Electric Load Sensing) electric winches are controlled by an Overload Protection Control Box, which allows the winch to be operated up to a set current relative to the working load limit of the specific winch. Once this current is exceeded, the winch automatically cuts out. Once the current drops to below the working load limit, the winch can be restarted. The ELS features the additional safety function of a motor thermal trip, which ensures that the motor cuts out in the event of excessive heat build up. ELS is available on the EVO® Electric Winch Range Size 40 to 80.

PART NUMBER	DESCRIPTION	40ST	45ST	50ST	55ST	65ST	70-70/3	80-80/3
68000933	CONTACTOR 12V "E"	•	•	•				
68000934	CONTACTOR 24V "E"	•	•	•				
18000301	CONTACTOR BOX 12V "E"	•	•	•				
18000302	CONTACTOR BOX 24V "E"	•	•	•				
48000217	ELS CONTROL BOX TYPE 1-3	24V						
48000220	ELS CONTROL BOX TYPE 1-6		24V					
48000221	ELS CONTROL BOX TYPE 1-7			24V	24V			
48000222	ELS CONTROL BOX TYPE 1-8	12V				24V		
48000224	ELS CONTROL BOX TYPE 2-2		12V					
48000225	ELS CONTROL BOX TYPE 2-3			12V				
48000227	ELS CONTROL BOX TYPE 2-5				12V			
48000229	ELS CONTROL BOX TYPE 2-7					12V		
48000178	70-70/3 CONTROL BOX 12V "ELS"						•	
48000179	70-70/3 CONTROL BOX 24V "ELS"						•	
48000180	80-80/3 CONTROL BOX 12V "ELS"							•
48000181	80-80/3 CONTROL BOX 24V "ELS"							•



Contactor "E"



"ELS" Electric Load Sensing Control Box

### Circuit Breaker

CIRCUIT BREAKER		WINCH SIZE								
		40	45	50	55	65	70	80	90	110
68000542	40A	24V								
68000348	50A		24V							
68000240	70A			24V			24V	24V		24V
68000349	90A	12V			24V	24V			24V	
68000350	110A		12V							
68000239	120A			12V			12V			12V
68000351	150A							12V	12V	
68000894	200A				12V	12V				





## 4 Accessories

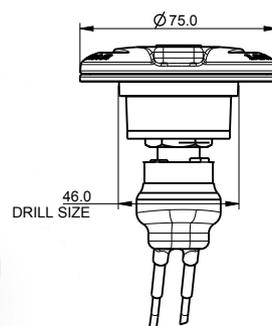
### Switches

#### CHSX Foot Switch

- Suitable for DC electric windlasses running on 12 or 24v
- IP67/5 rated for water resistance
- Twin sealed switch compartment
- Composite plastic body
- Available with polished stainless steel or composite plastic lid
- New lower-profile design with updated styling



#### CHSX Dimensions



DESCRIPTION	BLACK	STAINLESS STEEL
CLOSED LID	68001249	68001257
OPEN LID	68001256	68001258

#### Custom Deck Switches

Lewmar has developed a new range of stylish Custom deck switches. The new Custom deck switch can be used for any winch or windlass application.

- Sealed switch with strong rubber button cover
- Stainless steel main body
- Polished or blasted finishes as standard (custom finishes available)
- Easy replacement of bellows
- Must be used with a contactor or control box



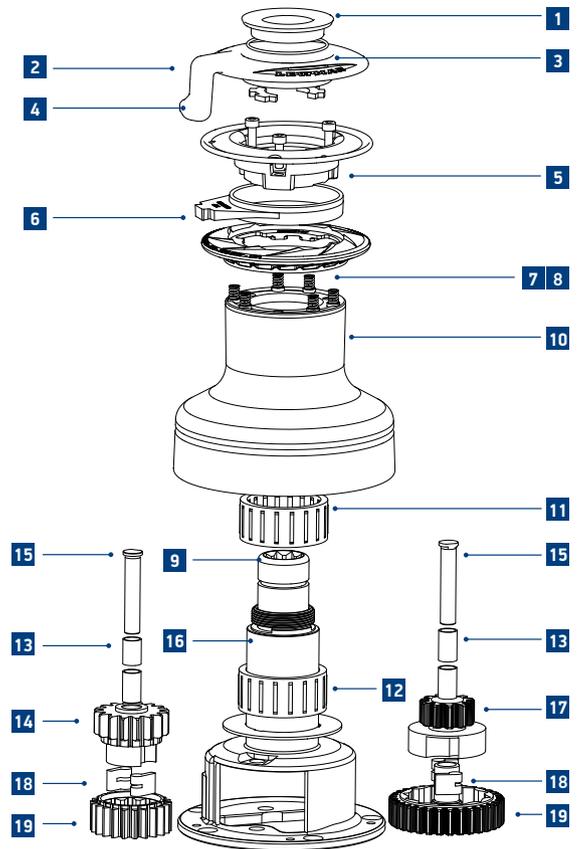
DESCRIPTION	MIRROR POL (MIRROR FINISH)	BLASTED (MATTE FINISH)
CLOSED	48000257	48000259
OPEN	48000256	48000258

# 6. Winch

## Servicing Your Winch



- |                  |                             |
|------------------|-----------------------------|
| 1. Top Cap       | 10. Drum                    |
| 2. Feeder arm    | 11. Roller bearing assembly |
| 3. Collet        | 12. Drum washer             |
| 4. Upper crown   | 13. Gear spindle sleeve     |
| 5. Stripper ring | 14. Pawl gear               |
| 6. Lower crown   | 15. Gear spindle            |
| 7. Spring        | 16. Centre stem             |
| 8. Spring cup    | 17. Pawl spring (not shown) |
| 9. Main spindle  | 18. Pawl                    |
|                  | 19. Ratchet gear            |



### Frequency of servicing

Lewmar winches must be serviced regularly. Winches are required to carry deceptively high loads. Regular servicing, with attention to correct assembly and condition of parts, is vital to the safety and performance of your boat.

### When?

1. Two or three times during active sailing season winches should be stripped, cleaned and re-lubricated.
2. At the end of each sailing season and before starting the new sailing season all Lewmar winches should be completely stripped, cleaned, thoroughly checked for damage and lubricated. (see the latest issue of the Lewmar Winch Service Manual available at [www.lewmar.com](http://www.lewmar.com))

### External cleaning of the drum.

Chromed and stainless steel winches – wash drum regularly with fresh water and dry with a cloth. Non-abrasive liquid chrome cleaner can be used occasionally to remove dirt spots.

Alloy winches – wash drum regularly with fresh water and dry with a cloth. DO NOT use polishes or abrasives.

### Servicing Winches

All components should be removed and cleaned in a paraffin bath during the course of servicing. If you do not have access to a paraffin bath, use half of an old plastic container with an old toothbrush. Even a cotton cloth soaked in paraffin or white spirit will suffice.

### Caution

Some Lewmar winches contain plastic components which may be damaged by inappropriate cleaning agents. Always check the manufacturers directions before using any cleaning agents.

### Greasing

Never use grease to lubricate your pawls, as this can lead to pawls sticking in their pockets and disabling the winch. Instead, lubricate with a light engine oil.

Use only a light smear of winch grease when lubricating ratchet tracks, gear teeth and bearings. Otherwise excess grease will be forced out and collect in potentially dangerous areas, such as pawl pockets.

### Assembly

Winches must be re-assembled in the reverse sequence to the order of dismantling. After re-assembly, immediately check the winch functions correctly.

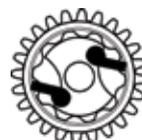
### Mounting

Winches must be fitted as explain in the product manual (supplied with every winch and downloadable from [www.lewmar.com](http://www.lewmar.com)).

Winches are self-draining and care should be taken to ensure the drain holes are not obstructed.

### Ratchet Gears – Pawl Engagement

When assembling ratchet gears, check pawl engagement as shown below. Incorrect assembly will lead to back winding of the winch. This is very dangerous, so extreme care should be taken.



✘ Wrong



✔ Correct

# Winch Maintenance Kits

Lewmar offers a full range of winch spares. Service kits include all common servicable spares including pawls, springs, sleeves, o-rings etc.

Full details of winch spares, including exploded diagrams to aid identification, are available from the spares section of [www.lewmar.com](http://www.lewmar.com)



**4800014**

**Suitable for**

- Ocean Standard winch sizes 6-40
- Ocean ST winch sizes 14 & 16
- EVO ST winch size 15



**4800019**

**Suitable for**

- Ocean ST winch sizes 30-48
- EVO ST winch sizes 30-50



**4800017**

**Suitable for**

- Ocean ST winch sizes 50-65
- EVO ST winch sizes 55-65



**4800018**

**Suitable for**

- Ocean ST winch size 68
- EVO ST winch size 70



**19701500**

**Winch Maintenance Pack**



**19701000**

**Grease — 100g**



**19701100**

**Grease - 300g**

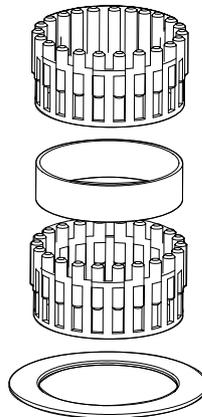


**19701600**

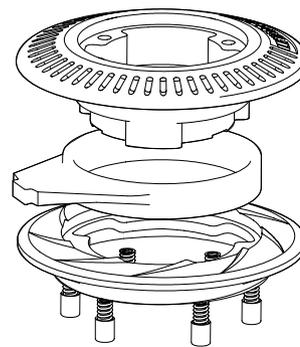
**Race Lube -55ml**

## Winch Spares Kits

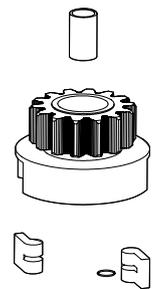
A full range of spares kits are also available, from bearing packages to jaw kits and everything in between. Contact your local Lewmar supplier or visit the spares section of [www.lewmar.com](http://www.lewmar.com)



**Drum Bearing Kit**



**Jaw Kit**



**Pawl Gear Kit**

## 6. Winch



### Custom Winches

For 50 years, Lewmar has been at the forefront of winch design and manufacture, featuring on cruisers to superyachts and Grand Prix racing boats.

Lewmar winches can be customised to suit individual aesthetic and functional requirements, with options including ceramic drum coatings, self-tailing jaws, custom top cleats, multiple speeds, free-spinning or ratcheting sheave base additions, and anticlockwise rotations. Each Lewmar winch is available in a choice of polished stainless steel, aluminium, or an individually specified finish, subject to discussion with your Lewmar representative.

- Cutting edge performance combined with classic styling
- Choice of styling includes rolex and bespoke engraving
- Individual functions to suit requirements, including sheave base, cleat or flat-top and self-tailing configurations
- Compatible with load-pin technology
- Ability to customise gear ratio and hydraulic motors to specific line requirements
- Electric or hydraulic operation options
- Available in bronze-effect finish
- Available in size 68 to size 150



### Custom Winch Specifications

PART NO	MODEL	FINISH	LINE SIZE	
			MM	IN
49088104	88HST OCEAN WINCH	STAINLESS STEEL	12-25	1/2-1
49088248	88 FLAT TOP WINCH	STAINLESS STEEL	12-25	1/2-1
49088109	88/3HST OCEAN	STAINLESS STEEL	12-25	1/2-1
49111104	111HST OCEAN	STAINLESS STEEL	16-38	5/8-1 1/2
49111109	111/3HST OCEAN	STAINLESS STEEL	16-38	5/8-1 1/2
49111255	111/3 FLAT TOP	STAINLESS STEEL	16-38	5/8-1 1/2
49122104	122HST OCEAN	STAINLESS STEEL	16-38	5/8-1 1/2
49122121	122/3 FLAT TOP	STAINLESS STEEL	16-38	5/8-1 1/2

As superyacht design trends evolve, so too must the look and feel of the equipment fitted to them. With current design tastes in mind, Lewmar has redesigned its custom range of winches to offer a cleaner, more streamlined look.

This parts list table contains just a fraction of the custom winches available. To assist with individual projects, our team of experts are on hand to help in selecting the perfect winch for the specific requirements.

Please email [custom@lewmar.com](mailto:custom@lewmar.com) with any enquiries.



## ASTOR Custom Winches

Lewmar manufactures cutting-edge alloy winches for larger yachts in which ultra-modern features and technical innovation are combined with classical looks.

ASTOR winches utilise a strong centre stem made of steel and aluminium and highly rigid Torlon® roller bearings. Lewmar has the capability to produce winch drums with specially milled surfaces to increase the grip. ASTOR winches are up to 30% lighter than a traditionally built winch of alloy and steel.

- Drive train based upon the proven Lewmar Ocean Range
- Available in size 40 to size 150
- Electric and hydraulic options available
- Lightweight aluminium construction

For further details contact [custom@lewmar.com](mailto:custom@lewmar.com)



### ASTOR Winch Specifications

PART NO	MODEL	FINISH	GEAR RATIO				POWER RATIO				WEIGHT		<b>D</b> DRUM DIA		<b>B</b> BASE DIA		<b>H</b> HEIGHT		<b>L</b> LINE ENTRY		LINE SIZE	
			1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	KG	LB	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN
49040050	40STR	BLACK	1.9:1	5.8:1	-	-	13.2:1	40.2:1	-	-	3.4	7.5	74	2 <sup>15</sup> / <sub>16</sub>	148	5 <sup>13</sup> / <sub>16</sub>	173	6 <sup>13</sup> / <sub>16</sub>	80	3 <sup>1</sup> / <sub>8</sub>	8-12	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>2</sub>
49044050	44STR	BLACK	2.4:1	7.6:1	-	-	13.9:1	44.8:1	-	-	4.9	10.8	87	3 <sup>7</sup> / <sub>16</sub>	168	6 <sup>5</sup> / <sub>8</sub>	192	7 <sup>9</sup> / <sub>16</sub>	84	3 <sup>5</sup> / <sub>16</sub>	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>1</sup> / <sub>16</sub>
49044014	44/3AOR	GREY	1:1	3:1	8.7:1	-	5.1:1	15.2:1	44:1	-	5.5	12.1	100	3 <sup>15</sup> / <sub>16</sub>	184	7 <sup>1</sup> / <sub>4</sub>	169	6 <sup>5</sup> / <sub>8</sub>	83	3 <sup>1</sup> / <sub>4</sub>	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>1</sup> / <sub>16</sub>
49048050	48STR	BLACK	2.6:1	9:1	-	-	13.9:1	48.6:1	-	-	5.9	13.0	93	3 <sup>11</sup> / <sub>16</sub>	181	7 <sup>1</sup> / <sub>8</sub>	208	8 <sup>3</sup> / <sub>16</sub>	86	3 <sup>3</sup> / <sub>8</sub>	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>1</sup> / <sub>16</sub>
49048015	48/3AOR	BLACK	1:1	3.6:1	10.6:1	-	4.5:1	16.3:1	48:1	-	6.8	14.9	112	4 <sup>7</sup> / <sub>16</sub>	207	8 <sup>1</sup> / <sub>8</sub>	196	7 <sup>3</sup> / <sub>4</sub>	102	4	8-14	5 <sup>1</sup> / <sub>16</sub> -9 <sup>1</sup> / <sub>16</sub>
49050050	50STR	BLACK	2.8:1	10.5:1	-	-	13.8:1	50.6:1	-	-	7.8	17.2	105	4 <sup>1</sup> / <sub>8</sub>	200	7 <sup>7</sup> / <sub>8</sub>	238	9 <sup>3</sup> / <sub>8</sub>	106	4 <sup>3</sup> / <sub>16</sub>	8-16	5 <sup>1</sup> / <sub>16</sub> -5 <sup>5</sup> / <sub>8</sub>
49050015	50/3AOR	BLACK	1:1	5.4:1	12.8:1	-	31.1:1	20.9:1	49.9:1	-	8.4	18.4	130	5 <sup>1</sup> / <sub>8</sub>	225	8 <sup>7</sup> / <sub>8</sub>	223	8 <sup>3</sup> / <sub>4</sub>	120	4 <sup>3</sup> / <sub>4</sub>	8-16	5 <sup>1</sup> / <sub>16</sub> -5 <sup>5</sup> / <sub>8</sub>
49054050	54STR	BLACK	2.8:1	11.2:1	-	-	13.8:1	54:1	-	-	8.3	18.3	105	4 <sup>1</sup> / <sub>8</sub>	205	8 <sup>1</sup> / <sub>16</sub>	250	9 <sup>13</sup> / <sub>16</sub>	115	4 <sup>1</sup> / <sub>2</sub>	8-16	5 <sup>1</sup> / <sub>16</sub> -5 <sup>5</sup> / <sub>8</sub>
49058050	58STR	BLACK	3.1:1	13.5:1	-	-	13.5:1	58.1:1	-	-	10.2	22.4	118	4 <sup>5</sup> / <sub>8</sub>	228	9	266	10 <sup>1</sup> / <sub>2</sub>	118.5	4 <sup>1</sup> / <sub>16</sub>	8-18	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>16</sub>
49060015	60/3AOR	BLACK	1:1	5.4:1	9:1	-	3.1:1	16.7:1	59.4:1	-	13.6	26.9	162	6 <sup>3</sup> / <sub>8</sub>	238	9 <sup>3</sup> / <sub>8</sub>	315	12 <sup>3</sup> / <sub>8</sub>	164	6 <sup>7</sup> / <sub>16</sub>	8-18	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>16</sub>
49062050	62STR	BLACK	3.1:1	14.5:1	-	-	13.5:1	62.6:1	-	-	10.8	23.8	118	4 <sup>5</sup> / <sub>8</sub>	231	9 <sup>1</sup> / <sub>8</sub>	271	10 <sup>1</sup> / <sub>16</sub>	121.5	4 <sup>3</sup> / <sub>4</sub>	8-18	5 <sup>1</sup> / <sub>16</sub> -1 <sup>1</sup> / <sub>16</sub>
49077035	77/3STR	GREY	2.8:1	8:1	27:1	-	7.9:1	23:1	77:1	-	22.3	49.1	178	7	294	11 <sup>9</sup> / <sub>16</sub>	348	8 <sup>3</sup> / <sub>4</sub>	174	6 <sup>7</sup> / <sub>8</sub>	12-22	1 <sup>1</sup> / <sub>2</sub> -7 <sup>1</sup> / <sub>8</sub>
49088245	88/3STR	GREY FLAT TOP	3.8:1	8:1	40:1	-	8.4:1	17.8:1	89:1	-	24.7	54.5	228	9	324	12 <sup>3</sup> / <sub>4</sub>	333	13 <sup>1</sup> / <sub>8</sub>	151	5 <sup>15</sup> / <sub>16</sub>	12-25	1 <sup>1</sup> / <sub>2</sub> -1
40000901	111/4AOR	GREY	1:1	3.6:1	8:1	45.2:1	1.8:1	6.5:1	14.6:1	89.2:1	29.1	64.2	280	11	404	15 <sup>15</sup> / <sub>16</sub>	317	12 <sup>1</sup> / <sub>2</sub>	163	6 <sup>7</sup> / <sub>16</sub>	12-25	1 <sup>1</sup> / <sub>2</sub> -1

## 6. Winch



### 850/1150/1450 Backwind Winch

Lewmar has developed a full range of high-load, backwinding superyacht winches to cater for line loads up to 14.5T pull and 18T hold. Boats such as the awe-inspiring J-Class have long relied on Lewmar for their winch requirements and, as they continue to push the performance envelope, our design and engineering team have been challenged to keep up.

The range now includes the 1450, 1150 & 850 Backwind Winches, all featuring the same groundbreaking architecture. Twin output gears offer precise trimming and stability at high loads while the optimised gear ratios ensure high line speeds for manoeuvring. With the addition of the 850 to the range, performance cruisers of 80-100ft can now fit a backwinding primary.



850 Backwind

- 8.5T Max pull
- 10T Max hold



1150 Backwind

- 11.5T Max pull
- 15T Max hold



1450 Backwind

- 14.5T Max pull
- 18T Max hold



## Lewmar Race Winches

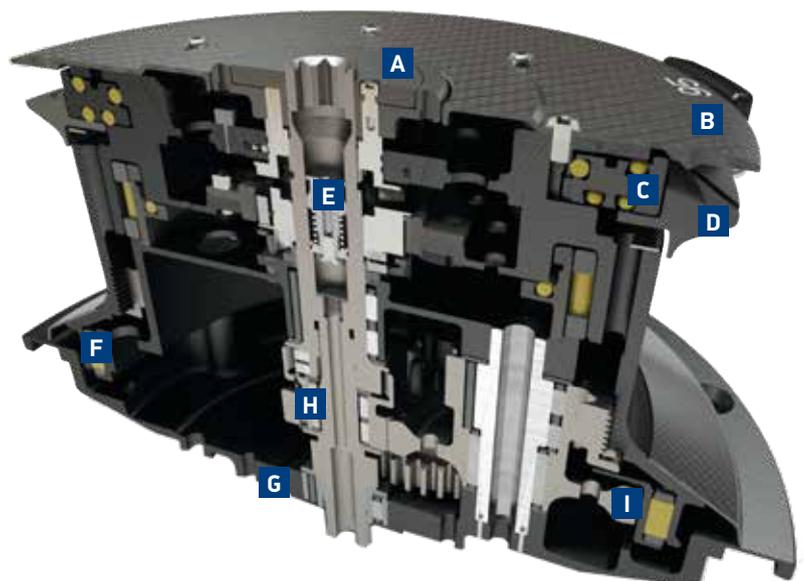
Lewmar Racing Winches have been at the forefront of the world's premier races for the last 60 years, including the America's Cup, Vendee Globe, MedCup, and the Volvo Ocean Race. Features such as aluminium and carbon fibre construction, Torlon® polymer bearings, and optional titanium gears, are the result of close relationships with race crews and cutting-edge research and design. Lewmar Racing Winches are the first choice for lightweight performance boats that want a winch they can rely on, whether round the cans or around the world.

Grand Prix racing winches can be driven by grinding pedestals or by hydraulic or electric motors. With modern racing rules evolving all the time, the Lewmar winch range has evolved to meet these challenges.

Pedestal-drive winch systems are used for applications demanding speed and power. One or more crew can grind from a powerful optimised standing position. Pedestal systems are customised to meet the specific needs of each boat.

- Latest Finite Element Analysis (FEA) and simulation software ensures designs are the lightest and most efficient winch systems
- Carbon power range available in Size 50 GPST through to the Size 120-4 GPST, with patented integral four-speed system
- Available with electric or hydraulic operation
- Operated by top handle or bottom pedestal drive
- Many custom options available, including ceramic drum coatings, custom top cleats, and free-spinning or ratcheting sheave base additions.
- Range available in 2 or 3 speed, or with Lewmar's patented integral 4-speed system
- State of the art carbon fibre finish offers weight saving
- Internal components crafted from aerospace industry materials
- Superior strength
- Developed through extensive research and development
- Custom speed and power ratios for ultimate flexibility
- Wavespring self-tailer
- Extensive range — self-tailing, cleat top, sheave base combinations

- A** Slam down 1:1 first speed button
- B** Carbon Tops & Skirts - Reducing weight
- C** Torlon Balls – More balls than any other winch!
- D** Wave Grip self-tailer – Proven, simple & effective design
- E** Drum Release – Unique single release button, for quick maintenance and servicing
- F** Large Torlon Bearings
- G** Sunk Base Option — For lower windage and flusher decks
- H** Internal Roller Bearings – For maximum efficiency
- I** Optimised Gear Design – Skeletal but strong



# 6. Winch



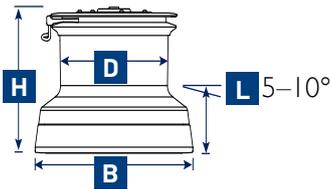
## Small Grand Prix Race Winches

Lightweight and strong, Lewmar's race winches offer the serious racer outstanding performance and power. Using the best features of our standard range, combined with the technology used on Fast 40+, Small Grand Prix Racing Winches offer performance and flexibility in lower-load applications.

All 3-Speed Grand Prix winches are available in either self-tailing, cleat top or sheave base configurations.

- Developed in conjunction with some of the top racing classes including, Fast 40+ and Kerr designs
- Range of finishes, including milled and keronite surfaces
- Driven manually, by power or through a pedestal

Dimensions Diagram Grand Prix Racing Winch



### Grand Prix Racing Winch Specifications

PART NO	MODEL	GEAR RATIO				POWER RATIO				WEIGHT		D		B		H		L		LINE SIZE	MOUNTING INSTRUCTIONS	
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	KG	LB	MM	IN	MM	IN	MM	IN	MM	IN			
49050125	50GPST	3.4:1	11.3:1			15.2:1	50:1			4.7	10.3	115	4 1/2	188	7 3/8	168	6 5/8	62	2 1/2	8-14	5/16-9/16	5 X M8 (5/16 IN) C'SK HEAD SCREWS ON 170MM (6 5/8 IN) PCD
49050130	50GPST SR	3.4:1	11.3:1			15.2:1	50:1			5.1	11.2	115	4 1/2	217	8 1/2	168	6 5/8	62	2 1/2	8-14	5/16-9/16	5 X M8 (5/16 IN) C'SK HEAD SCREWS ON 170MM (6 5/8 IN) PCD
49060000	60/3GPST	1:1	4.3:1	15.4:1		3.9:1	16.8:1	60.2:1		7.8	17.2	130	5 1/8	214	8 1/2	186	7 3/8	67	2 5/8	8-14	5/16-9/16	6 X M8 (5/16 IN) C'SK HEAD SCREWS ON 195MM (7 5/8 IN) PCD
49060009	60/3GP SB	1:1	4.3:1	15.4:1		3.9:1	16.8:1	60.2:1		8.2	18	130	5 1/8	236	9 5/16	186	7 3/8	67	2 5/8	8-14	5/16-9/16	6 X M8 (5/16 IN) C'SK HEAD SCREWS ON 195MM (7 5/8 IN) PCD
49068001	68ACSTR	3.5	19.2:1			12:1	67:1			9.5	20.9	150	5 7/8	250	9 13/16	213	8 3/8	99	3 7/8	8-14	5/16-9/16	6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 200MM (7 7/8 IN) PCD
49068002	68/3ACSTR	1:1	3.4:1	19.2:1		3.5:1	12:1	67:1		10.6	23.3	146	5 3/4	250	9 13/16	227	8 15/16	97	3 7/8	8-14	5/16-9/16	6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 200MM (7 7/8 IN) PCD
49068021	68/3GP SB	1:1	3.5:1	19.3:1		3.5:1	12:1	67:1		10.5	23.1	146	5 3/4	275	10 13/16	227	8 15/16	95	3 3/4	8-14	5/16-9/16	6 X M10 (3/8 IN) C'SK HEAD SCREWS ON 200MM (7 7/8 IN) PCD

SR - SPEED RING | ST - SELF TAILING | SB - SHEAVE BASE

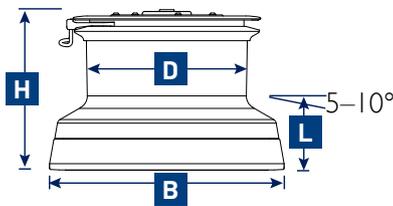


## Large Grand Prix Race Winches

What's inside makes all the difference. In every Lewmar Grand Prix Winch, you will find materials developed for the aerospace industry, precision CNC machined for maximum efficiency, durability and strength-to-weight ratio. Once the winch is assembled, we use an aggressive in-house testing program to ensure maximum performance on the world's toughest racecourses.

- Developed in conjunction with some of the top racing classes including GP42, Class 40, TP52, Open 60, Volvo 70, IACC, 100ft Supermaxis and offshore Maxi-Multihulls
- Range available in 2, 3 or with Lewmar's integral 4-speed system

Dimensions Diagram Grand Prix Racing Winch



Grand Prix Racing Winch Specifications

PART NO	MODEL	GEAR RATIO				POWER RATIO				WEIGHT		D		B		H		L		LINE SIZE	MOUNTING INSTRUCTIONS	
		1ST	2ND	3RD	4TH	1ST	2ND	3RD	4TH	KG	LB	MM	IN	MM	IN	MM	IN	MM	IN			
49082000	82GPST	1:1	8.5:1	29:1		2.5:1	24:1	82:1		14.7	32.4	182	7 <sup>1</sup> / <sub>8</sub>	290	11 <sup>7</sup> / <sub>16</sub>	215	8 <sup>7</sup> / <sub>16</sub>	79.5	3 <sup>1</sup> / <sub>8</sub>	12-16	1/2-5/8	8 X M10 (3/8 IN) C'SK HEAD SCREWS ON 266MM (10 1/2 IN) PCD
49099000	99/3GPST	1:1	9.4:1	40.9:1		2.5:1	23:1	101:1		17.5	38.5	204	8	320	12 <sup>5</sup> / <sub>8</sub>	234	9 <sup>1</sup> / <sub>4</sub>	90	3 <sup>1</sup> / <sub>2</sub>	10-16	3/8-5/8	8 X M10 (3/8 IN) C'SK HEAD SCREWS ON 296MM (11 5/8 IN) PCD
49099009	99/3GP SB	1:1	9.4:1	40.9:1		2.5:1	23:1	101:1		19.2	42.2	204	8	328	12 <sup>15</sup> / <sub>16</sub>	234	9 <sup>1</sup> / <sub>4</sub>	92	3 <sup>9</sup> / <sub>16</sub>	12-16	1/2-5/8	8 X M10 (3/8 IN) C'SK HEAD SCREWS ON 281MM (11 1/16 IN) PCD
49095001	95/4GPST	1:1	3.8:1	8:1	40:1	2:1	7.6:1	16:1	80:1	20.5	45.1	254	10	370	14 <sup>5</sup> / <sub>8</sub>	225	8 <sup>7</sup> / <sub>8</sub>	98	3 <sup>7</sup> / <sub>8</sub>	10-16	3/8-5/8	6 X M12 (1/2 IN) C'SK HEAD SCREWS ON 288MM (11 3/32 IN) PCD
49095004	95/4GPST SB	1:1	3.8:1	8:1	40:1	2:1	7.6:1	16:1	80:1	21.8	48	254	10	370	14 <sup>5</sup> / <sub>8</sub>	225	8 <sup>7</sup> / <sub>8</sub>	98	3 <sup>7</sup> / <sub>8</sub>	10-16	3/8-5/8	6 X M12 (1/2 IN) C'SK HEAD SCREWS ON 288MM (11 3/32 IN) PCD
40005066	105/3STR	1:1	8.3:1	39.6:1		1.6:1	13.6:1	64.8:1		18.5	40.7	280	11	360	14 <sup>9</sup> / <sub>32</sub>	225	8 <sup>7</sup> / <sub>8</sub>	93.7	3 <sup>1</sup> / <sub>16</sub>	8-14	5/16-9/16	6 X M12 (1/2 IN) C'SK HEAD SCREWS ON 288MM (11 3/32 IN) PCD
49105002	105/4GPST	1:1	3.8:1	8:1	40:1	1.8:1	6.9:1	14.5:1	72.6:1	21.6	47.5	280	11	370	14 <sup>5</sup> / <sub>8</sub>	237	9 <sup>3</sup> / <sub>8</sub>	90	3 <sup>1</sup> / <sub>2</sub>	10-16	3/8-5/8	6 X M12 (1/2 IN) C'SK HEAD SCREWS ON 288MM (11 3/32 IN) PCD
49105006	105/4GP SB	1:1	3.8:1	8:1	40:1	1.8:1	6.9:1	14.5:1	72.6:1	23.4	51.5	280	11	370	14 <sup>5</sup> / <sub>8</sub>	220	8 <sup>5</sup> / <sub>8</sub>	90	3 <sup>1</sup> / <sub>2</sub>	10-16	3/8-5/8	6 X M12 (1/2 IN) C'SK HEAD SCREWS ON 288MM (11 3/32 IN) PCD
49115000	115/3ACSTR	1:1	8:1	45.2:1		1.8:1	14.8:1	82.2:1		39.3	86.5	282	11 <sup>1</sup> / <sub>8</sub>	432	17	327	12 <sup>7</sup> / <sub>8</sub>	152	5 <sup>5</sup> / <sub>16</sub>	12-18	1/2-3/4	10 X M12 (1/2 IN) C'SK HEAD SCREWS ON 365MM (14 3/8 IN) PCD
49120001	120/4ACSTR	1:1	3.6:1	8:1	45.2:1	1.7:1	6:1	13.5:1	75.3:1	47.3	104.1	305	12	450	17 <sup>3</sup> / <sub>4</sub>	312	12 <sup>1</sup> / <sub>4</sub>	143	5 <sup>5</sup> / <sub>8</sub>	14-20	9/16-3/4	10 X M12 (1/2 IN) C'SK HEAD SCREWS ON 365MM (14 7/8 IN) PCD

## 6. Winch



### Lewmar Pedestal Systems

Lewmar has been making pedestal systems for over 40 years. Working closely with some of the best teams and sailors over this time has given Lewmar a great pedigree and understanding – we know what it takes to get you over the line. Our design engineers can develop bespoke tailored systems to your exact requirements.

- Optimised layup schedule ensures maximum stiffness and efficiency
- Drive components manufactured in hard anodised aluminium and titanium or 17-4 PH stainless steel
- Ceramic and Torlon® bearings along with carbon-reinforced drive belts provide lightweight, maximum efficiency

#### Drive Shafts

Lewmar offers two types of drive shafts, either extruded splined aluminium drive shafts, or the more popular custom made carbon tubular drive shafts with bonded end fittings. The drive shaft choice is determined by load, cost, and weight considerations.

#### Disconnect Foot Switches

Pedestal system disconnects can be activated with either levers, control lines or a two-position push button. The most popular method is operation via a foot switch.

#### Clutches

The unique Lewmar dog drive clutches ensure consistent and smooth operation. This allows engagement and disengagement even while the grinders are hard at work spinning the handles.

#### Overdrive Box

The overdrive box can be used to increase line speeds or heighten power, ideal for fast leeward mark rounding, or short handed sailing if you need more power. The Lewmar overdrive box is modular and can be fitted to any pedestal drive system.



PRODUCT	WEIGHT	
	KG	LB
MODULAR SELF SEEKING CLUTCH <sup>1</sup>	2.4	5.3
INTEGRATED SELF SEEKING CLUTCH	0.75	1.6

<sup>1</sup> ILLUSTRATED

PRODUCT	WEIGHT	
	KG	LB
OVERDRIVE BOX	3.1	6.8

## Rotor Pedestal

The new rotor pedestal is over 2kg lighter and is stiffer than its predecessor thanks to the more aggressive I-beam section and use of high-modulus carbon fibre. Large diameter Torlon® roller bearings have been used in the top end to support the high torque and axial loading which occurs during grinding. The top end is removable, making it easy to service from above deck. The complete internals can be disassembled, serviced and put back together within 30 minutes. This also means that the gear ratio can be easily changed on the water to suit the type of racing on the day.

## Universal Joints

Gear boxes are connected to other gear boxes and pedestals by drive shafts fitted with either a universal joint or a coupling at each end. Our CV couplings are extremely light but may only be used where the shafts are in-line. Our high-angle universal joint is made of aluminium with 17-4 stainless pins, making it very strong and able to operate efficiently at shaft angles up to 15 degrees.

## CV Joints

The Lewmar constant velocity joint can replace universal joints reducing weight in the system as well as increasing drive train efficiency for more effective power transfer.

## Bevel box

The bevel gear box is the core building block of the Lewmar drive system. Precision engineered and oil-filled, Lewmar bevel boxes transmit torque with extremely high efficiency, allowing maximum power delivery to the winches.

PRODUCT	WEIGHT	
	KG	LB
ALLOY BEVEL GEARBOX	4.5	10
LIGHTWEIGHT 4 MAN ALLOY BEVEL GEARBOX	2.5	5.5
HIGH TORQUE ULTRALIGHT CARBON FIBRE BEVEL GEARBOX	2.0	4.4



## 6. Winch



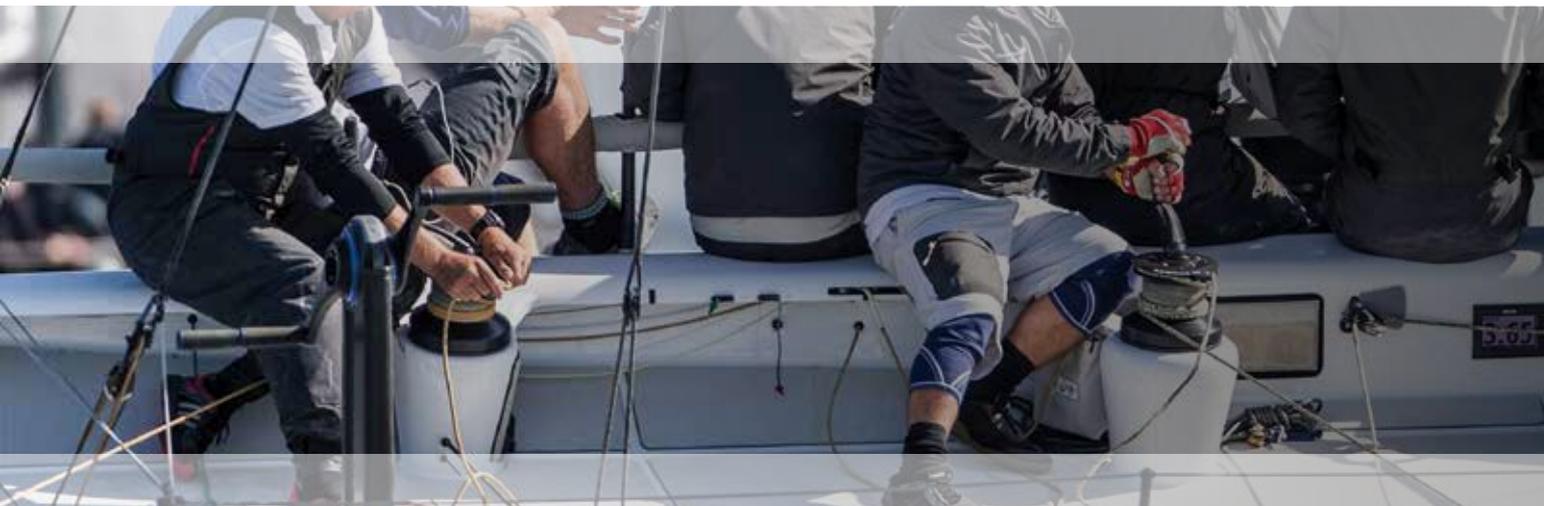
### Lewmar Rotor Pedestal

The new rotor pedestal is over 2kg lighter and is stiffer than its predecessor thanks to the more aggressive I-beam section and use of high modulus carbon fibre. Large diameter Torlon<sup>®</sup> roller bearings have been used in the top end to support the high torque and axial loading which occurs during grinding. The top end is removable, making it easy to service from above deck. The complete internals can be disassembled, serviced and put back together within 30 minutes. This also means that the gear ratio can be easily changed on the water to suit the type of racing on the day.

- Lightweight carbon shell
- Developed using high-strength low-weight pre-preg carbon fibre composites from the FI industry
- Clear coat UV-stable protective lacquer is standard (painted options available)
- Internal composite bearing systems
- Double bearing systems on handle housing
- Carbon or composite racing grip handles



**rotor**



## Oil-Filled Bevel Box

Our new oil-filled bevel boxes are 15% lighter and considerably smaller than its predecessor. By using very hard precision roller bearings, and thin oil lubrication, the bevel boxes are very efficient, requiring very little maintenance due to the high-quality internal bearings and magnetic drain plugs. Integrated clutches can be mounted directly to the bevel box housings to save the weight of additional brackets in the installation.



## Overdrive Boxes

The overdrive units come with two ratio options: [1:1.8] and [1:2.8]

The box can be engaged to speed up the winches (less power) or in slow down the winches (more power). This feature allows optimal load management in different applications and conditions. These overdrive boxes can be mounted on the pedestal or in line, next to the first bevel box.



## Clutches and Disconnect Switches

The clutches have been simplified to make them lighter and easier to service with fewer parts. The small assemblies can be mounted to the bevel boxes, winches or pedestal to disconnect/connect exactly where needed in the system.



## 6. Winch



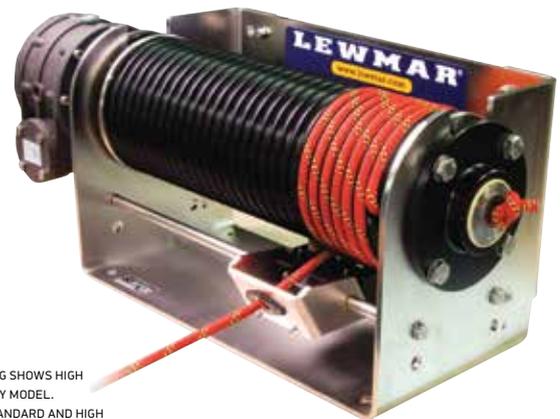
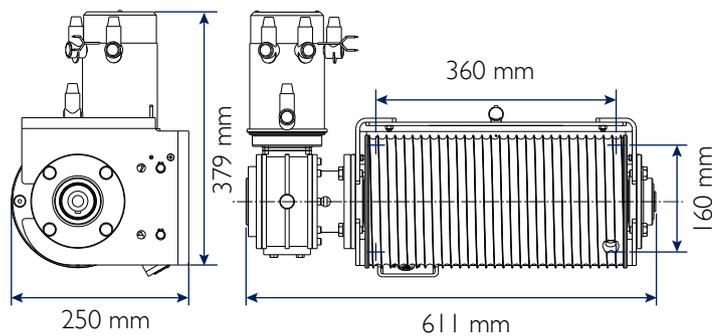
### CW 800 – The Captive Winch For The Smaller Yacht

The CW 800 winch is ideal for the main halyard or mainsheet on yachts. The CW 800 offers safe, remote-controlled line handling and storage on yachts up to 48ft (14.6m).

If you wish to have powered winches but do not have the space on the cabin top, using a CW 800 will allow the halyards to be hauled and stored in a convenient place on board for a very efficient use of space on smaller yachts.

Available in 12V and 24V options, the CW 800 is a viable alternative to managing halyards, or main sheets, dependent on the line speed required.

#### Dimensions Diagram CW 800



LINE DRAWING SHOWS HIGH CAPACITY MODEL. BOTH CW800 STANDARD AND HIGH CAPACITY VERSION HAVE THE SAME FOOTPRINT. THE DIFFERENCE IS THE DRUM DIAMETER

PART NUMBER	DESCRIPTION
59600140	CW800 WINCH 12V
59600142	CW800 WINCH 24V
59600150	CW800 HIGH CAPACITY WINCH 12V
59600152	CW800 HIGH CAPACITY WINCH 24V

#### CW 800 Standard Specification

SPECIFICATION	METRIC	IMPERIAL
MAX LINE LENGTH	10.3 M	34 FT
LINE SIZE	10 – 12 MM	3/8 – 7/16 IN
MAXIMUM LINE SPEED	33.5 M/MIN	110 FT/MIN
MAXIMUM PULL	1400 KG	3086 LB
MAXIMUM HOLDING POWER	1500 KG	3307 LB
WEIGHT	38.3 KG	84 LB

#### CW 800 High Capacity Specification

SPECIFICATION	METRIC	IMPERIAL
MAX LINE LENGTH	14.6 M	48 FT
LINE SIZE	10 – 12 MM	3/8 – 7/16 IN
MAXIMUM LINE SPEED	45 M/MIN	148 FT/MIN
MAXIMUM PULL	1200 KG	2645 LB
MAXIMUM HOLDING POWER	1500 KG	3307 LB
WEIGHT	39.3 KG	87 LB

## LMS - Captive Winch Line Management System

The Lewmar Captive Winch Line Management System offers safe, remote-controlled line handling and storage for yachts in the 22m (72ft) to 91m (300ft) range. The unique separate hauling drum eliminates the need for long lead entries, while storing the rope at low tension on a separate drum prevents damage to the rope. For small boats where space under the cabin top is limited, we have designed the CW800.

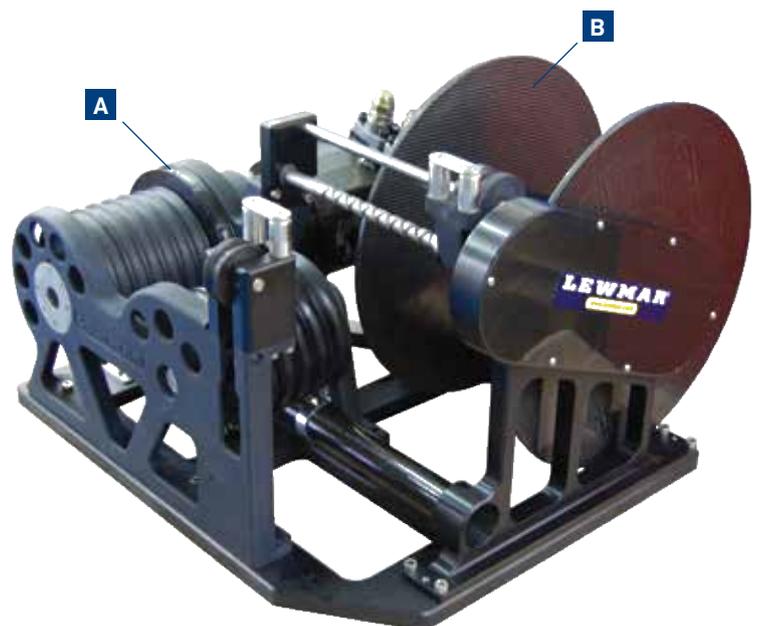
- Up to 25% lighter than previous models
- Compact size
- Up to 3 speed options
- Carbon stowage drum
- Eliminates long lead entry angles
- Can be used with proportional or non proportional hydraulic control systems
- Self sustaining – no load ‘drop back’ when the brakes are applied
- Pulls from 2.5 to 18 tons

A separate hauling drum eliminates the need for long lead entries while storing the rope to the separate storage drum, allowing the rope to be stored neatly at low tension and preventing damage to the rope and the possibility of riding turns.

**A** Unique V groove sheave improves grip and reduces rope damage

**B** Line stowing system ensures low line tension and good line lay

- Automatic hauling system
- Separate hauling and stowing drums, allows more rope storage for a given size
- Emergency high-load release feature



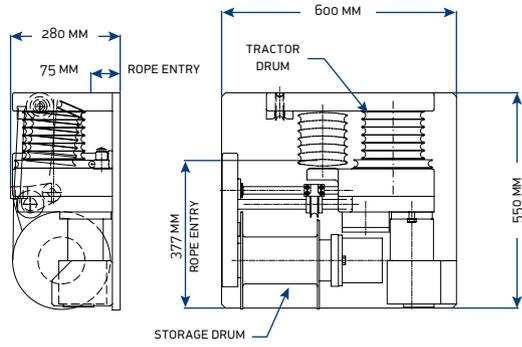
### LMS Standard Specifications

	SPEEDS	MAXIMUM LINE PULL		MAXIMUM LINE SPEED IN EACH GEAR		FLOW RATE AT MAX LINE SPEEDS		LINE DIAMETER		MAXIMUM WORKING PRESSURE		WEIGHT	
		KG	LB	M/MIN	FT/MIN	L/MIN	US GAL/MIN	MM	IN	BAR	PSI	KG	LB
CW2500	1	2500	5512	28	92	60	15.9	12-16	1/2-5/8	160	2321	120	265
CW3500	2	3500	7716	31/15	102/49	55	14.5	12-16	1/2-5/8	150	2176	120	265
CW6000	2 OR 3	6000	13228	60/24/15	197/79/49	45	11.9	14-22	9/16-7/8	235	3408	150	331
CW9000	2 OR 3	9000	19842	60/22/10	197/72/33	70	18.5	22-28	7/8-1/8	200	2901	285	628
CW12000	2 OR 3	12000	26455	60/20/13	197/66/43	95	25.1	26-30	1-1 3/16	230	3336	480	1058
CW18000	2 OR 3	18000	39683	60/16/10	197/52/33	110	29.1	30-38	1 3/16-1 1/2	220	3191	600	1323

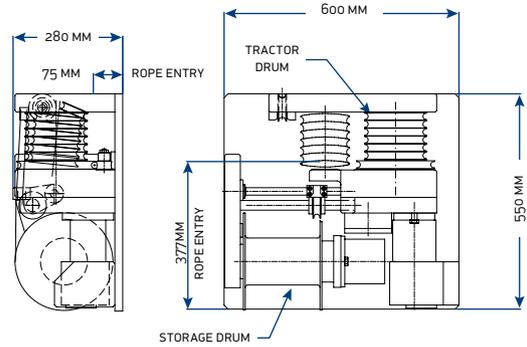
MODEL	CW2500	CW3500	CW6000	CW9000	CW12000	CW18000
LINE STORAGE (M)	012MM : 38 014MM : 29 016MM : 27	012MM : 38 014MM : 29 016MM : 27	014MM : 110 016MM : 90 018MM : 75 020MM : 60 022MM : 50	020MM : 110 022MM : 85 024MM : 65 026MM : 60 028MM : 50	026MM : 65 028MM : 55 030MM : 50 032MM : 40	030MM : 65 032MM : 55 034MM : 50 036MM : 45
LINE STORAGE (FT)	0 1/2" : 125 0 9/16" : 95 0 5/8" : 89	0 1/2" : 125 0 9/16" : 95 0 5/8" : 89	0 9/16" : 361 0 5/8" : 295 0 11/16" : 246 0 13/16" : 197 0 7/8" : 164	0 13/16" : 361 0 7/8" : 279 0 15/16" : 213 0 15/16" : 197 0 15/16" : 164	0 15/16" : 213 0 15/16" : 180 0 13/16" : 164 0 1 1/4" : 148	0 1 3/16" : 213 0 1 1/4" : 180 0 1 5/16" : 164 0 1 7/16" : 148

# 6. Winch

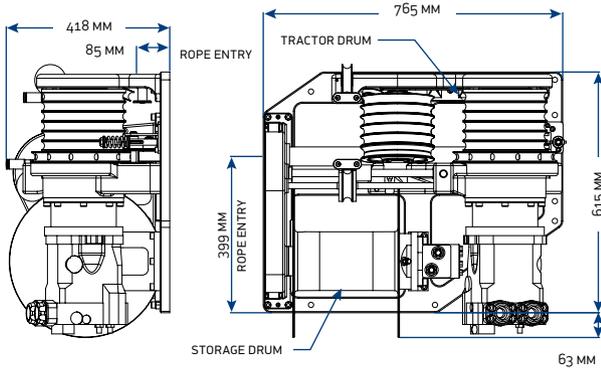
CW 2500



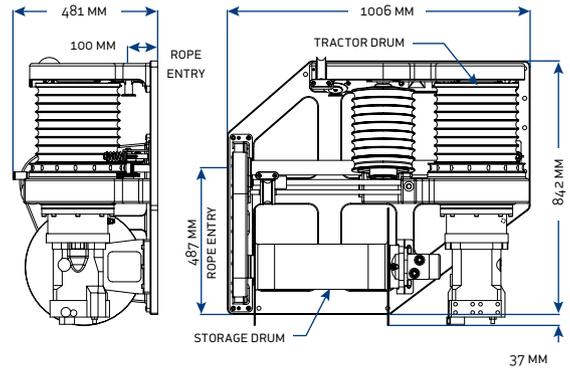
CW 3500



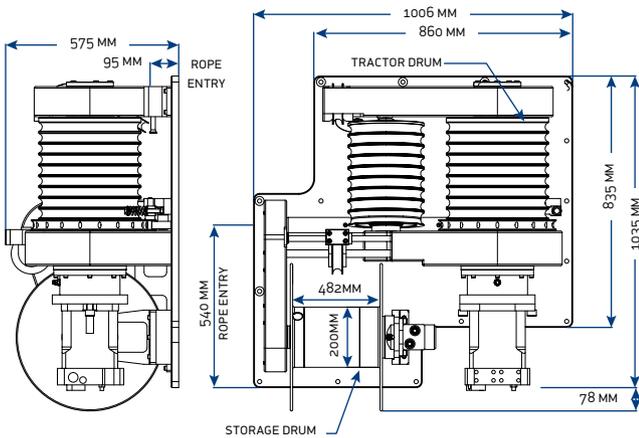
CW 6000



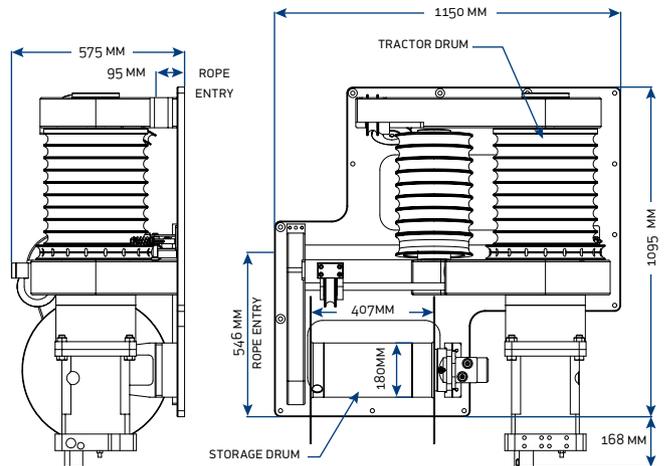
CW 9000



CW 12000



CW 18000



## Custom Line Storage

Custom line storage options available.

Contact [custom@lewmar.com](mailto:custom@lewmar.com) for more information





## Winch Handles

### OneTouch Winch Handle

The award-winning OneTouch allows you to lock in and remove the winch handle with one hand. Simply squeeze the release lever, which runs the entire length of the handle, and pull to unlock in one quick, easy motion.

- 8" and 10" Alloy Handle
- Release lever runs entire length of the handle
- Easy one-handed removal – just squeeze and lift
- Lightweight, forged construction
- Corrosion resistant for years of performance under harsh conditions
- Available in Standard Grip and Power Grip
- As used by the Americas Cup, Volvo and TP52 teams



### Specifications

PART NUMBER	SIZE		DESCRIPTION
	MM	IN	
29140044	250	10	ALLOY HANDLE, LOCK-IN, SINGLE GRIP
29140046	250	10	ALLOY HANDLE, LOCK-IN, POWER GRIP
29140040	200	8	ALLOY HANDLE, LOCK-IN, SINGLE GRIP
29140042	200	8	ALLOY HANDLE, LOCK-IN, POWER GRIP

# 6. Winch



## Lewmar Winch Handles

- Ball bearings provide maximum efficiency
- Manufactured in durable, lightweight alloy
- 250mm (10") available in chrome
- Optional Power Grip makes initial fast cranking easy and comfortable, with space for a second hand once the load comes on



## Titan Winch Handles

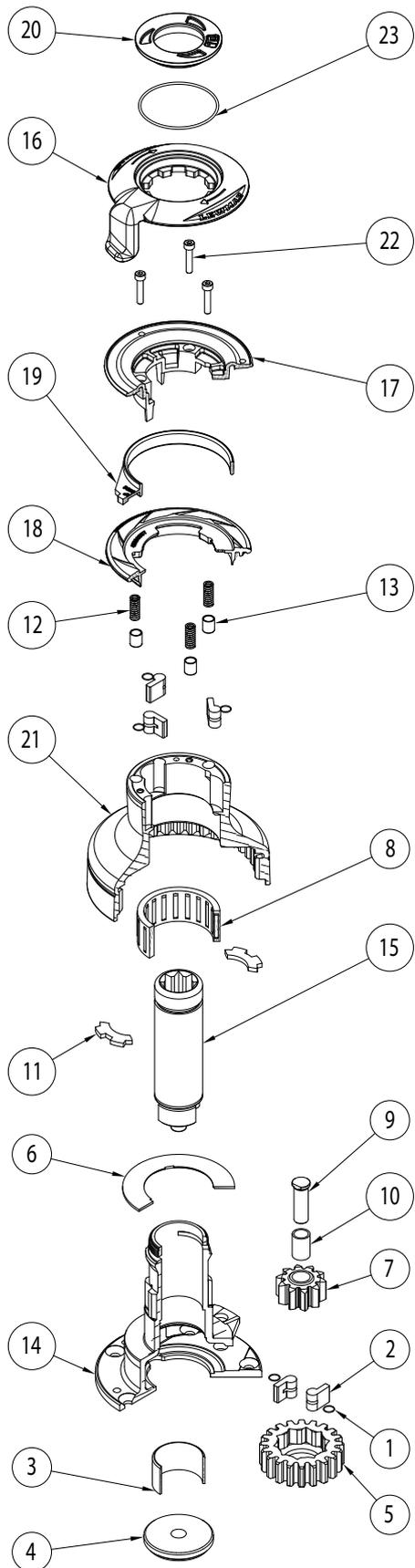
- Strong composite construction
- Very light-weight
- Handle floats if dropped overboard
- Engineered to withstand rigours of saltwater environment.



PART NUMBER	SIZE		DESCRIPTION
	MM	IN	
29145301	200	8	TITAN WINCH HANDLE, RED, LOCKING
29145311	250	10	TITAN WINCH HANDLE, RED, LOCKING
29140017	200	8	LEWMAR WINCH HANDLE, BLUE, NON-LOCKING



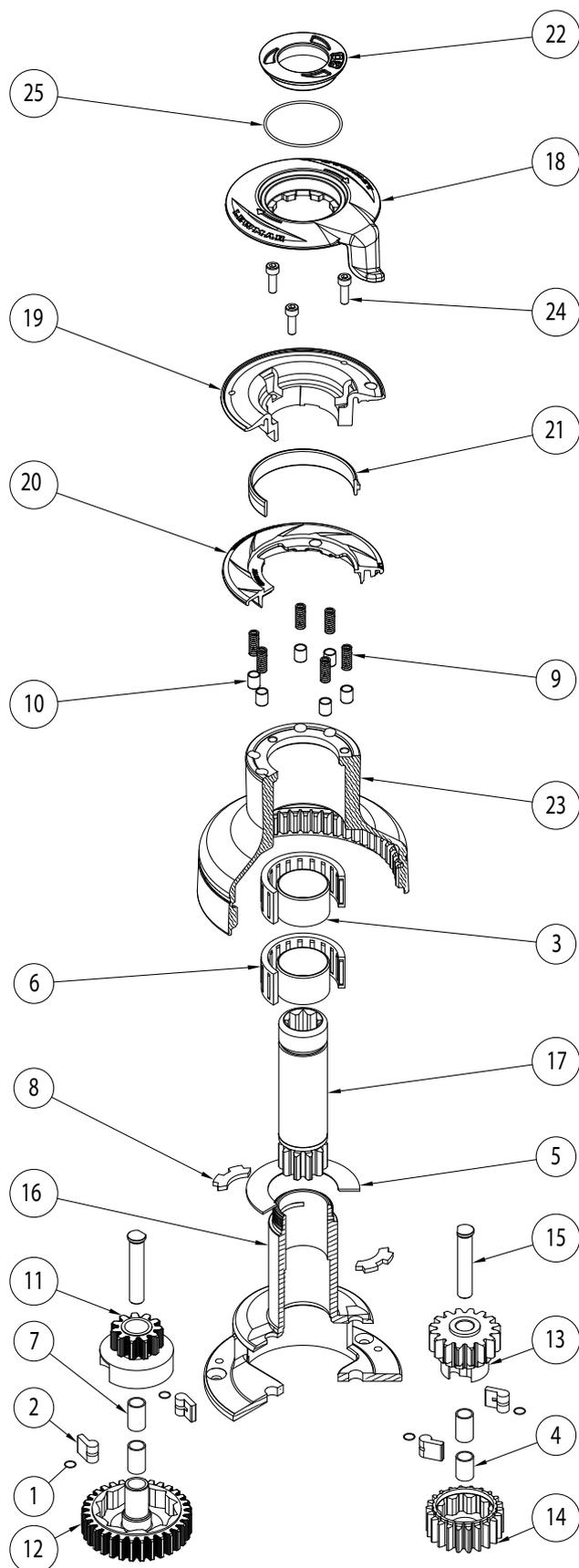
I5ST EVO® Winch spares



ITEM	PART NO	DESCRIPTION	QTY
1	1260/7	PAWL SPRING	5
2	1260/8	PAWL SMALL	5
3	15000377	BEARING SLEEVE	1
4	15000461	GEAR RETAINER	1
5	15000464	RATCHET GEAR	1
6	15000466	DRUM WASHER	1
7	15000827	IDLER GEAR	1
8	15008007	NEEDLE BEARING	1
9	45000023	GEAR SPINDLE	1
10	45000033	GEAR SPINDLE SLEEVE	1
11	45000102	COLLET	2
12	45000112	SPRING	3
13	45000113	SPRING CUP	3
14	45500001	CENTRE STEM	1
15	45500004	MAIN SPINDLE	1
16	45500005	FEEDER ARM	1
17	45500006	UPPER CROWN	1
18	45500007	LOWER CROWN	1
19	45500008	STRIPPER RING	1
20	45500009	TOP CAP	1
21	455000**	DRUM	1
22		M4X20LNG SKT HD CAP SCREW A2	3
23	B12988	O RING 50 X 1.5	1

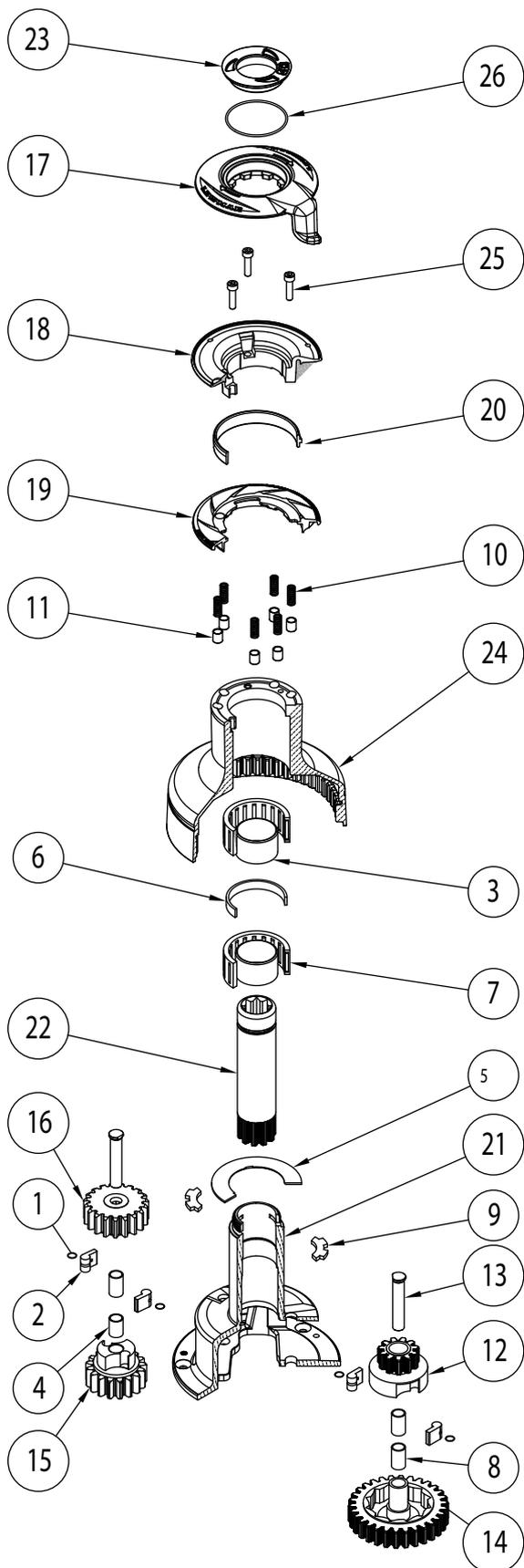
# 6. Winch

30ST EVO® Winch spares



ITEM	PART NO	DESCRIPTION	QTY
1	1260/7	PAWL SPRING	4
2	1260/8	PAWL SMALL	4
3	15000377	BEARING SLEEVE	2
4	15000378	GEAR SPINDLE SLEEVE	1
5	15000466	DRUM WASHER	1
6	15008007	NEEDLE BEARING	2
7	45000029	GEAR SPINDLE SLEEVE	3
8	45000102	COLLET	2
9	45000112	SPRING	6
10	45000113	SPRING CUP	6
11	45000119	PAWL GEAR	1
12	45000120	RATCHET GEAR	1
13	45000121	PAWL GEAR	1
14	45000122	RATCHET GEAR	1
15	45000123	GEAR SPINDLE	2
16	45500101	CENTRE STEM	1
17	45500104	MAIN SPINDLE	1
18	45500105	FEEDER ARM	1
19	45500106	UPPER CROWN	1
20	45500107	LOWER CROWN	1
21	45500108	STRIPPER RING	1
22	45500109	TOP CAP	1
23	455001**	DRUM	1
24	M5X16 SKT HD CAP SCREW A2		3
25	B12987	O-RING 48X1.5	1

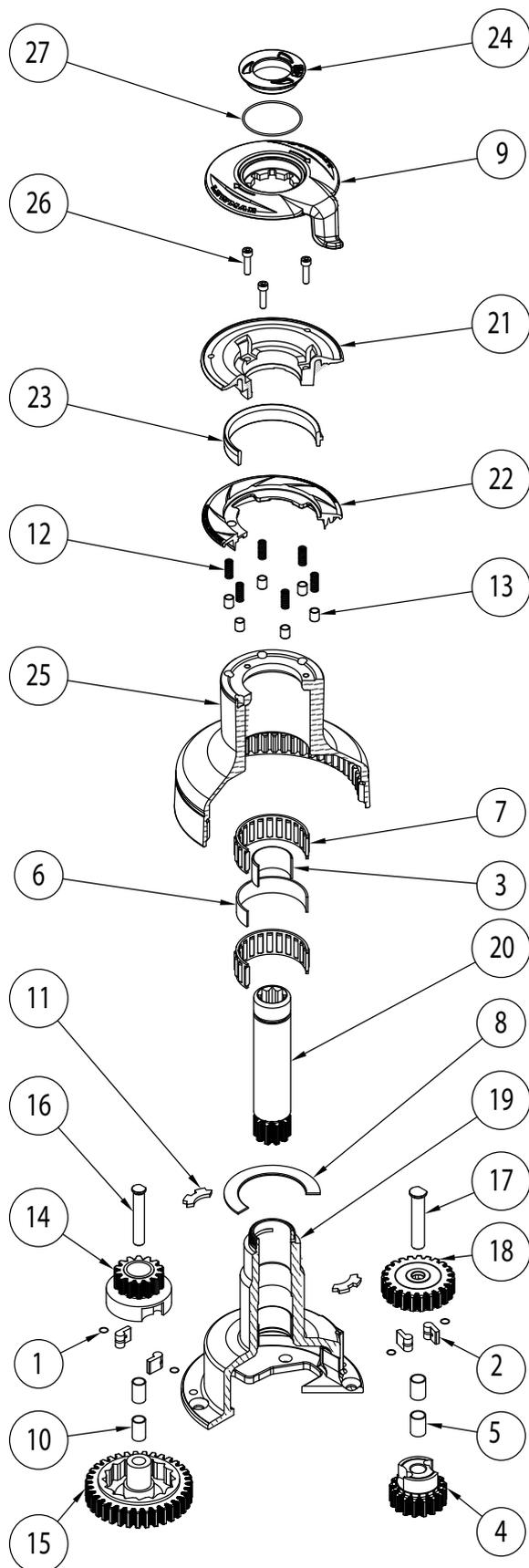
40ST EVO® Winch spares



ITEM	PART NO	DESCRIPTION	QTY
1	1260/7	PAWL SPRING	4
2	1260/8	PAWL SMALL	4
3	15000377	BEARING SLEEVE	2
4	15000378	GEAR SPINDLE SLEEVE	1
5	15000466	DRUM WASHER	1
6	15000491	BEARING SPACER	1
7	15008007	NEEDLE BEARING	2
8	45000029	GEAR SPINDLE SLEEVE	3
9	45000102	COLLET	2
10	45000112	SPRING	6
11	45000113	SPRING CUP	6
12	45000119	PAWL GEAR	1
13	45000123	GEAR SPINDLE	2
14	45000220	RATCHET GEAR	1
15	45000221	PAWL GEAR	1
16	45000222	RATCHET GEAR	1
17	45500105	FEEDER ARM	1
18	45500106	UPPER CROWN	1
19	45500107	LOWER CROWN	1
20	45500108	STRIPPER RING	1
21	45500201	CENTRE STEM	1
22	45500204	MAIN SPINDLE	1
23	45500209	TOP CAP	1
24	455002**	DRUM	1
25	M5X20 SKT HD CAP SCREW A2		3
26	B12987	O-RING 48X1.5	1

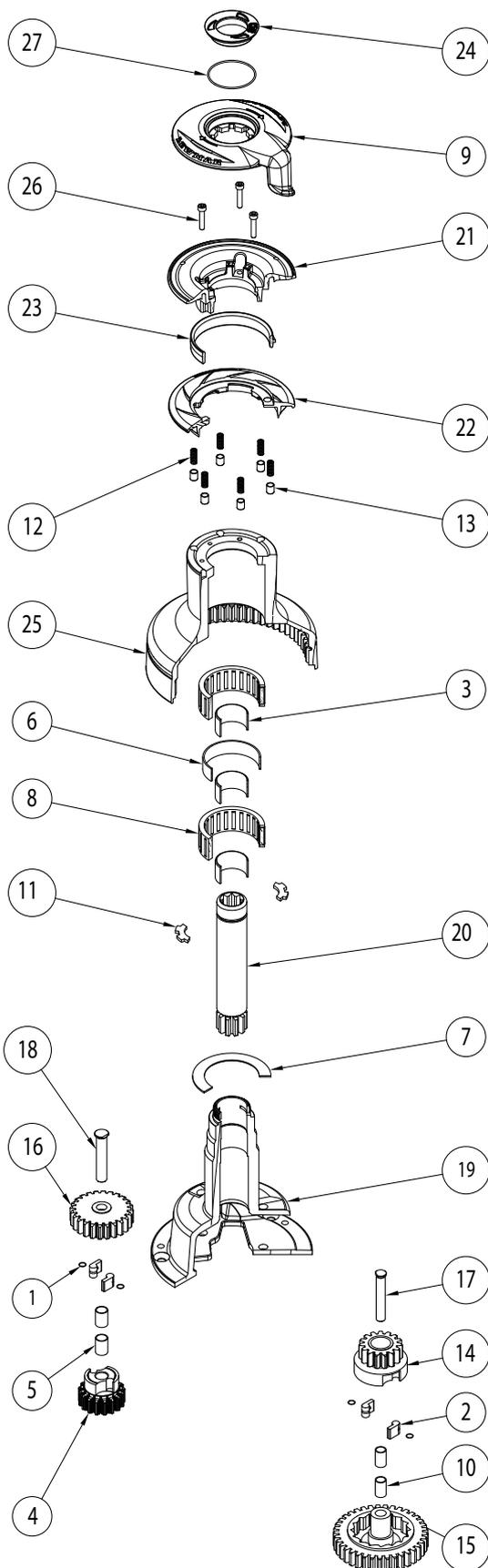
# 6. Winch

45ST EVO® Winch spares



ITEM	PART NO	DESCRIPTION	QTY
1	1260/7	PAWL SPRING	4
2	1260/8	PAWL SMALL	4
3	15000377	BEARING SLEEVE	2
4	15000397	PAWL GEAR	1
5	15000398	SPINDLE SLEEVE	2
6	15000404	SPACER	1
7	15010007	ROLLER BEARING	2
8	15044116	DRUM WASHER	1
9	43500305	FEEDER ARM	1
10	45000029	GEAR SPINDLE SLEEVE	2
11	45000102	COLLET	2
12	45000112	SPRING	6
13	45000113	SPRING CUP	6
14	45000319	PAWL GEAR	1
15	45000320	RATCHET GEAR	1
16	45000323	GEAR SPINDLE	1
17	45000324	GEAR SPINDLE	1
18	45000333	RATCHET GEAR	1
19	45500301	CENTRE STEM	1
20	45500304	MAIN SPINDLE	1
21	45500306	UPPER CROWN	1
22	45500307	LOWER CROWN	1
23	45500308	STRIPPER RING	1
24	45500309	TOP CAP	1
25	455003**	DRUM	1
26	M5X20 SKT HD CAP SCREW A2		3
27	B12987	O-RING 48X1.5	1

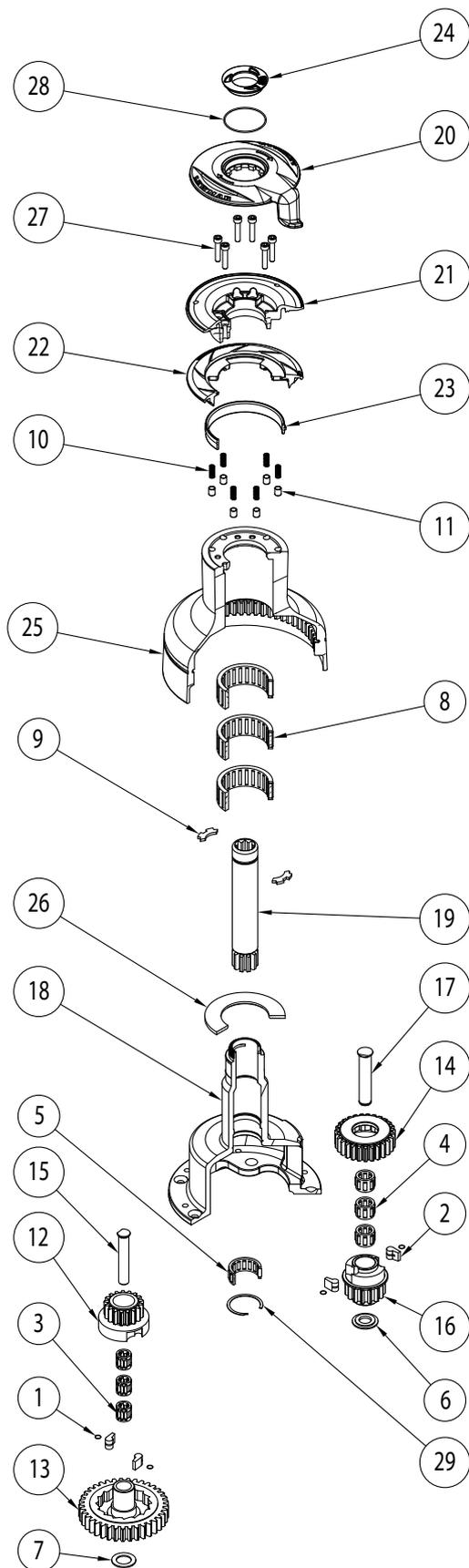
50ST EVO® Winch spares



ITEM	PART NO	DESCRIPTION	QTY
1	1260/7	PAWL SPRING	4
2	1260/8	PAWL SMALL	4
3	15000377	BEARING SLEEVE	3
4	15000397	PAWL GEAR	1
5	15000398	SPINDLE SLEEVE	2
6	15000404	SPACER	1
7	15044116	DRUM WASHER	1
8	15044121	ROLLER BEARING	2
9	43500405	FEEDER ARM	1
10	45000029	GEAR SPINDLE SLEEVE	2
11	45000102	COLLET	2
12	45000112	SPRING	6
13	45000113	SPRING CUP	6
14	45000419	PAWL GEAR	1
15	45000420	RATCHET GEAR	1
16	45000422	RATCHET GEAR	1
17	45000423	GEAR SPINDLE	1
18	45000424	GEAR SPINDLE	1
19	45500401	CENTRE STEM	1
20	45500404	MAIN SPINDLE	1
21	45500406	UPPER CROWN	1
22	45500407	LOWER CROWN	1
23	45500408	STRIPPER RING	1
24	45500409	TOP CAP	1
25	455004**	DRUM	1
26	M5X20 SKT HD CAP SCREW A2		3
27	B12987	O-RING 48X1.5	1

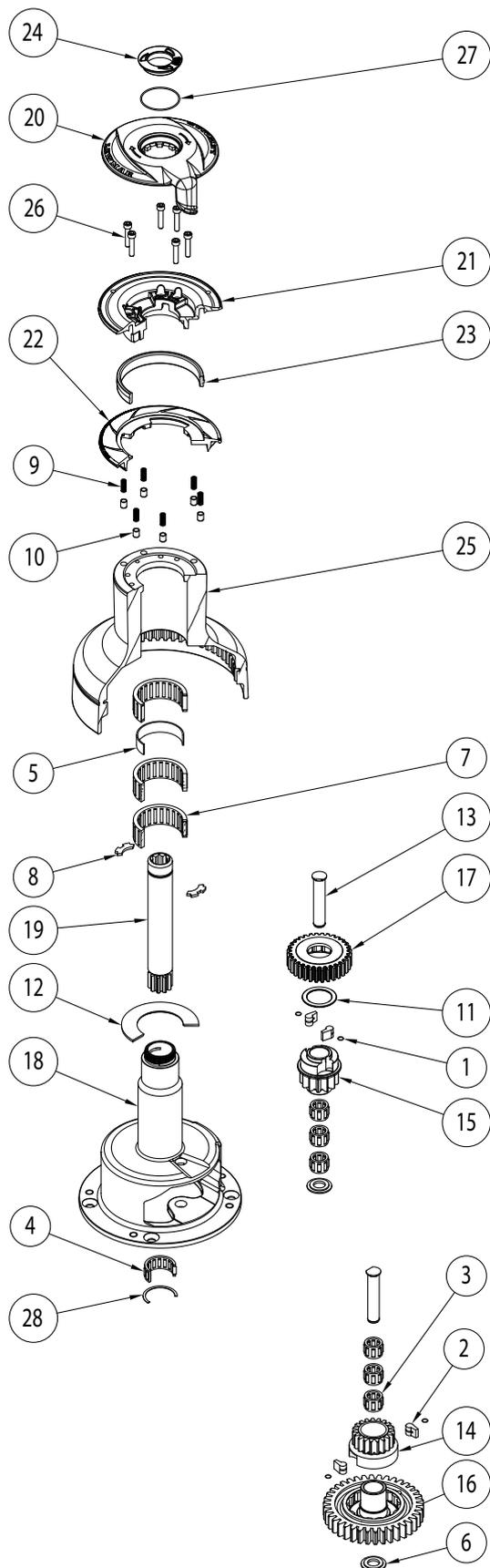
# 6. Winch

55ST EVO® Winch spares



ITEM	PART NO	DESCRIPTION	QTY
1	1260/7	PAWL SPRING	4
2	1264/8	PAWL	4
3	1300-SA2	BEARING ASSY	3
4	15000017	ROLLER BEARING	3
5	15000019	ROLLER BEARING	1
6	15000646	WASHER	1
7	15000981	WASHER	1
8	15044121	ROLLER BEARING	3
9	45000102	COLLET	2
10	45000112	SPRING	6
11	45000113	SPRING CUP	6
12	45000519	PAWL GEAR	1
13	45000520	RATCHET GEAR	1
14	45000522	RATCHET GEAR	1
15	45000523	GEAR SPINDLE	1
16	45000621	PAWL GEAR	1
17	45000624	GEAR SPINDLE	1
18	45500501	CENTRE STEM	1
19	45500504	MAIN SPINDLE	1
20	45500505	FEEDER ARM	1
21	45500506	UPPER CROWN	1
22	45500507	LOWER CROWN	1
23	45500508	STRIPPER RING	1
24	45500509	TOP CAP	1
25	455005**	DRUM	1
26	45500513	DRUM WASHER	1
27		SKT HD CAP SCREW M6X30	6
28	B12988	O RING 50X1.5	1
29	B2092	CIRCLIP	1

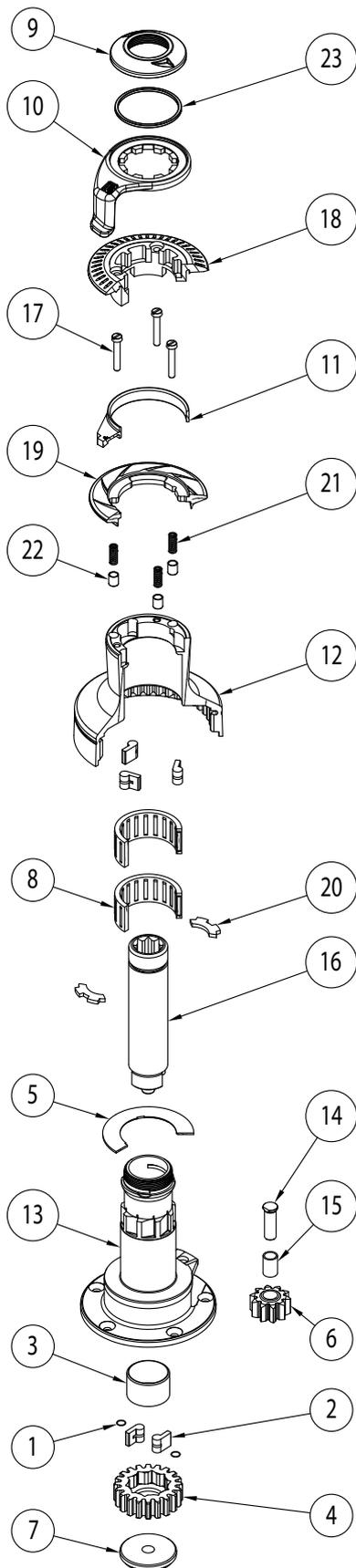
65ST EVO® Winch spares



ITEM	PART NO	DESCRIPTION	QTY
1	1260/7	PAWL SPRING	4
2	1264/8	PAWL	4
3	15000017	ROLLER BEARING	6
4	15000019	ROLLER BEARING	1
5	15000404	SPACER	1
6	15000646	WASHER	1
7	15044121	ROLLER BEARING	3
8	45000102	COLLET	2
9	45000112	SPRING	6
10	45000113	SPRING CUP	6
11	45000533	WASHER	1
12	45000534	DRUM WASHER	1
13	45000624	GEAR SPINDLE	2
14	45000719	PAWL GEAR	1
15	45000821	PAWL GEAR	1
16	45000851	RATCHET GEAR	1
17	45005183	RATCHET GEAR	1
18	45500601	CENTRE STEM	1
19	45500604	MAIN SPINDLE	1
20	45500605	FEEDER ARM	1
21	45500606	UPPER CROWN	1
22	45500607	LOWER CROWN	1
23	45500608	STRIPPER RING	1
24	45500609	TOP CAP	1
25	455006**	DRUM	1
26		SKT HD CAP SCREW M6X30	6
27	B12987	O RING 48X1.5	1
28	B2092	CIRCLIP	1

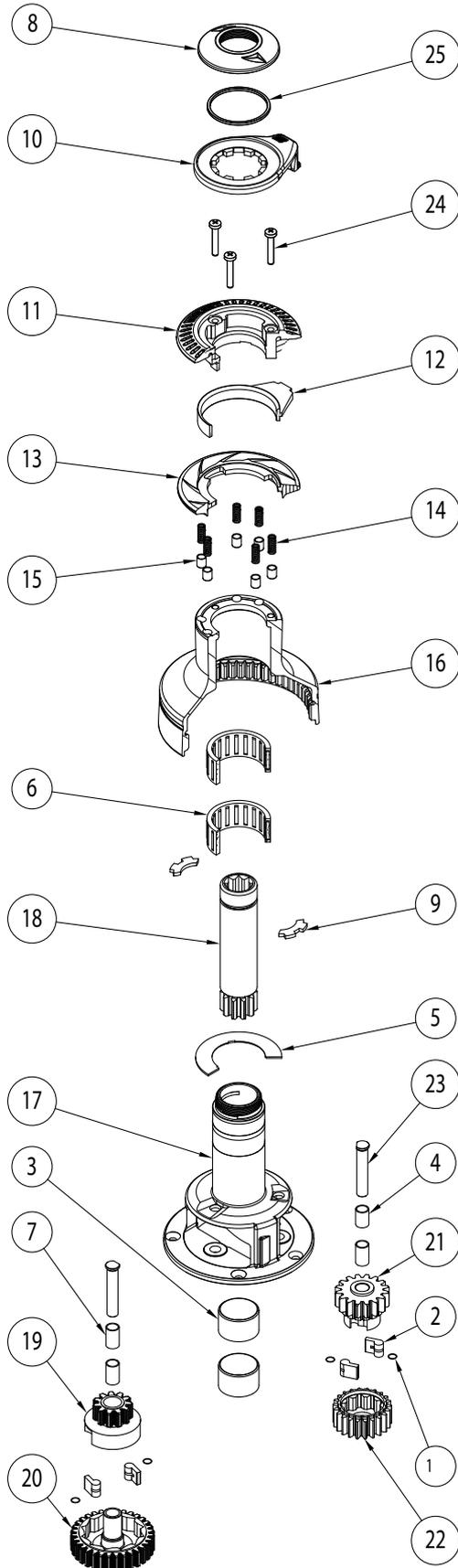
# 6. Winch

I6ST Ocean Winch spares



ITEM	PART NO GREY	PART NO CHROME	DESCRIPTION	QTY
1	1260/7		PAWL SPRING	5
2	1260/8		PAWL SMALL	5
3	15000377		BEARING SLEEVE	1
4	15000464		RATCHET GEAR	1
5	15000466		DRUM WASHER	1
6	15000827		IDLER GEAR	1
7	15000461		GEAR RETAINER	1
8	15008007		NEEDLE BEARING	2
9	45000048	45000000	TOP CAP	1
10	45000003		FEEDER ARM	1
11	45000008		STRIPPER RING	1
12	45000014	45000015	DRUM	1
13	45000017		CENTRE STEM	1
14	45000023		GEAR SPINDLE	1
15	45000033		GEAR SPINDLE SLEEVE	1
16	45000037		MAIN SPINDLE	1
17			M5X30 SLT CHS HD	3
18	45000085		UPPER CROWN	1
19	45000089		LOWER CROWN	1
20	45000102		COLLET	2
21	45000112		SPRING	3
22	45000113		SPRING CUP	3
23	B12039	B6061	O RING	1

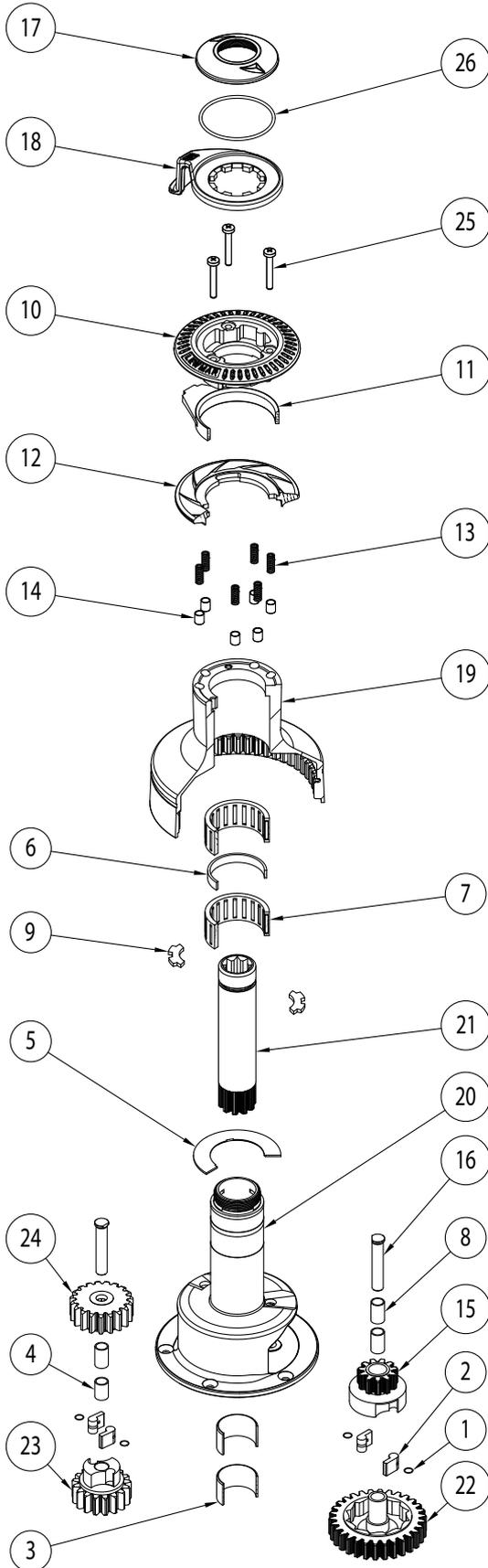
30ST Ocean Winch spares



ITEM	PART NO GREY	PART NO CHROME	DESCRIPTION	QTY
1	1260/7		PAWL SPRING	4
2	1260/8		PAWL SMALL	4
3	15000377		BEARING SLEEVE	2
4	15000378		GEAR SPINDLE SLEEVE	1
5	15000466		DRUM WASHER	1
6	15008007		NEEDLE BEARING	2
7	45000029		GEAR SPINDLE SLEEVE	3
8	45000166	45000100	TOP CAP	1
9	45000102		COLLET	2
10	45000103		FEEDER ARM	1
11	45000105		UPPER CROWN	1
12	45000108		STRIPPER RING	1
13	45000109		LOWER CROWN	1
14	45000112		SPRING	6
15	45000113		SPRING CUP	6
16	45000114	45000115	DRUM	1
17	45000117		CENTRE STEM	1
18	45000118		MAIN SPINDLE	1
19	45000119		PAWL GEAR	1
20	45000120		RATCHET GEAR	1
21	45000121		PAWL GEAR	1
22	45000122		RATCHET GEAR	1
23	45000123		GEAR SPINDLE	2
24			PAN HEAD SCREW	3
25	B12040	B6061	O RING	1

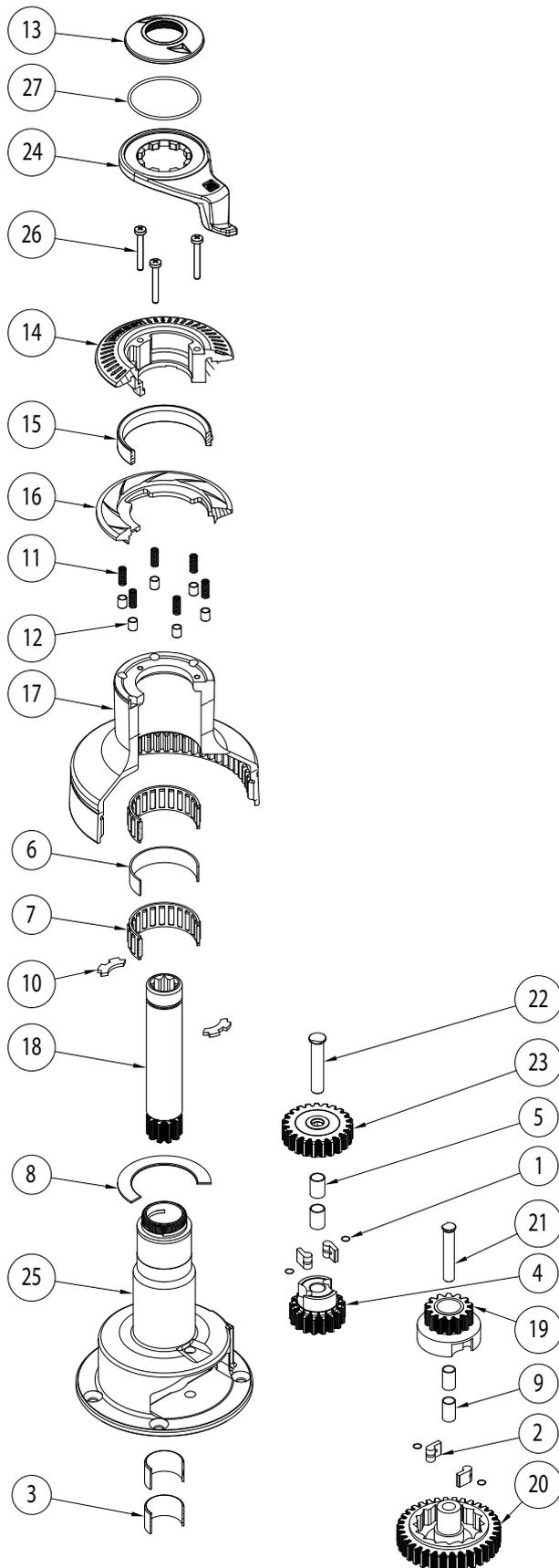
# 6. Winch

40ST Ocean Winch spares



ITEM	PART NO GREY	PART NO CHROME	DESCRIPTION	QTY
1	1260/7		PAWL SPRING	4
2	1260/8		PAWL SMALL	4
3	15000377		BEARING SLEEVE	2
4	15000378		GEAR SPINDLE SLEEVE	1
5	15000466		DRUM WASHER	1
6	15000491		BEARING SPACER	1
7	15008007		NEEDLE BEARING	2
8	45000029		GEAR SPINDLE SLEEVE	3
9	45000102		COLLET	2
10	45000105		UPPER CROWN	1
11	45000108		STRIPPER RING	1
12	45000109		LOWER CROWN	1
13	45000112		SPRING	6
14	45000113		SPRING CUP	6
15	45000119		PAWL GEAR	1
16	45000123		GEAR SPINDLE	2
17	45000166	45000100	TOP CAP	1
18	45000203		FEEDER ARM	1
19	45000214	45000215	DRUM	1
20	45000217		CENTRE STEM	1
21	45000218		MAIN SPINDLE	1
22	45000220		RATCHET GEAR	1
23	45000221		PAWL GEAR	1
24	45000222		RATCHET GEAR	1
25			PAN HEAD SCREW	3
26	B12040	B6061	O RING	1

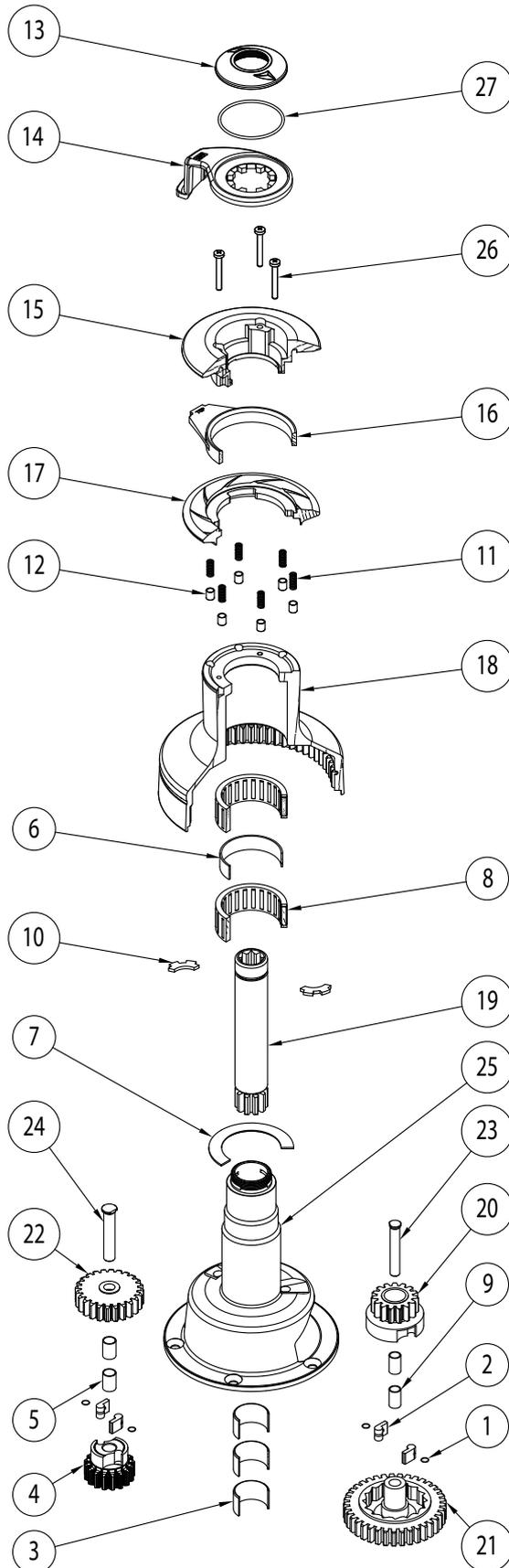
46ST Ocean Winch spares



ITEM	PART NO GREY	PART NO CHROME	DESCRIPTION	QTY
1	1260/7		PAWL SPRING	4
2	1260/8		PAWL SMALL	4
3	15000377		BEARING SLEEVE	2
4	15000397		PAWL GEAR	1
5	15000398		SPINDLE SLEEVE	2
6	15000404		SPACER	1
7	15010007		ROLLER BEARING	2
8	15044116		DRUM WASHER	1
9	45000029		GEAR SPINDLE SLEEVE	2
10	45000102		COLLET	2
11	45000112		SPRING	6
12	45000113		SPRING CUP	6
13	45000166	45000100	TOP CAP	1
14	45000305		UPPER CROWN	1
15	45000308		STRIPPER RING	1
16	45000309		LOWER CROWN	1
17	45000314	45000315	DRUM	1
18	45000318		MAIN SPINDLE	1
19	45000319		PAWL GEAR	1
20	45000320		RATCHET GEAR	1
21	45000323		GEAR SPINDLE	1
22	45000324		GEAR SPINDLE	1
23	45000333		RATCHET GEAR	1
24	45000355		FEEDER ARM	1
25	45000378		CENTRE STEM	1
26			PAN HEAD SCREW	3
27	B12040	B6061	O RING	1

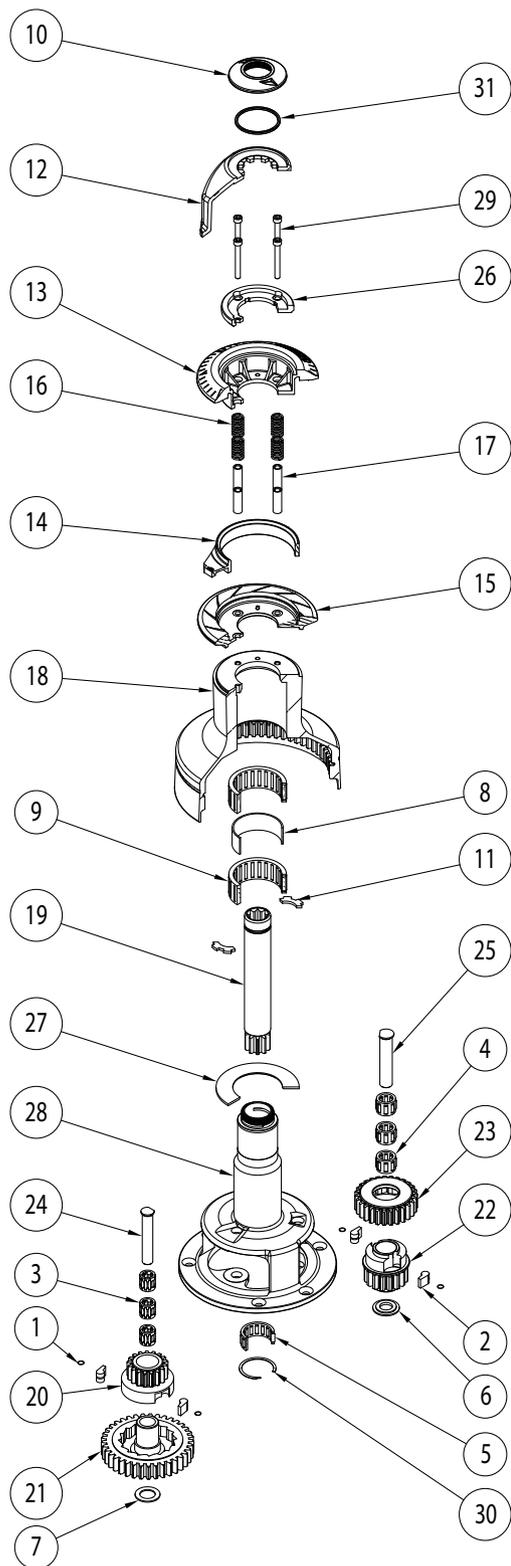
# 6. Winch

48ST Ocean Winch spares



ITEM	PART NO GREY	PART NO CHROME	DESCRIPTION	QTY
1	1260/7		PAWL SPRING	4
2	1260/8		PAWL SMALL	4
3	15000377		BEARING SLEEVE	3
4	15000397		PAWL GEAR	1
5	15000398		SPINDLE SLEEVE	2
6	15000404		SPACER	1
7	15044116		DRUM WASHER	1
8	15044121		ROLLER BEARING	2
9	45000029		GEAR SPINDLE SLEEVE	2
10	45000102		COLLET	2
11	45000112		SPRING	6
12	45000113		SPRING CUP	6
13	45000166	45000100	TOP CAP	1
14	45000403		FEEDER ARM	1
15	45000405		UPPER CROWN	1
16	45000408		STRIPPER RING	1
17	45000409		LOWER CROWN	1
18	45000414	45000415	DRUM	1
19	45000418		MAIN SPINDLE	1
20	45000419		PAWL GEAR	1
21	45000420		RATCHET GEAR	1
22	45000422		RATCHET GEAR	1
23	45000423		GEAR SPINDLE	1
24	45000424		GEAR SPINDLE	1
25	45000438		CENTRE STEM	1
26			PAN HEAD SCREW	3
27	B12040	B6061	O RING	1

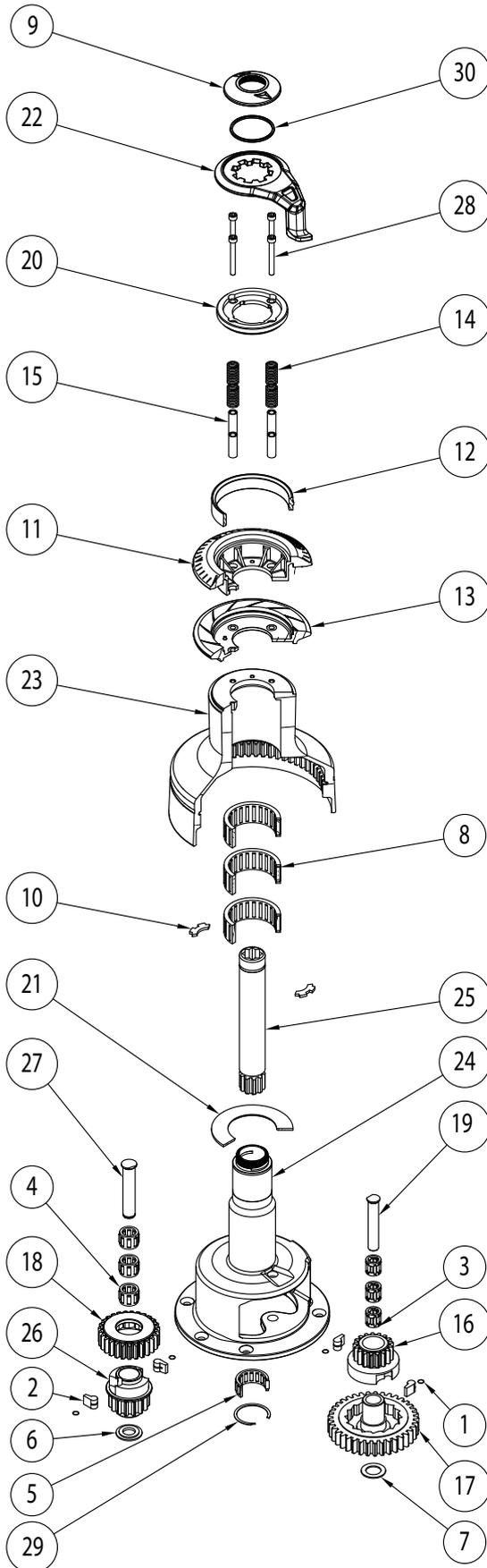
50ST Ocean Winch spares



ITEM	PART NO GREY	PART NO CHROME	DESCRIPTION	QTY
1	1260/7		PAWL SPRING	4
2	1264/8		PAWL	4
3	1300/SA2		BEARING ASSY	3
4	15000017		ROLLER BEARING	3
5	15000019		ROLLER BEARING	1
6	15000646		WASHER	1
7	15000981		WASHER	1
8	15042012		SPACER	1
9	15044121		ROLLER BEARING	2
10	45000166	45000100	TOP CAP	1
11	45000102		COLLET	2
12	45000503		FEEDER ARM	1
13	45000505		UPPER CROWN	1
14	45000508		STRIPPER RING	1
15	45000509		LOWER CROWN	1
16	45000512		SPRING	4
17	45000513		SPACER	4
18	45000514	45000515	DRUM	1
19	45000518		SPINDLE	1
20	45000519		PAWL GEAR	1
21	45000520		RATCHET GEAR	1
22	45000521		PAWL GEAR	1
23	45000522		RATCHET GEAR	1
24	45000523		GEAR SPINDLE	1
25	45000524		GEAR SPINDLE	1
26	45000525		SPRING RETAINER	1
27	45000534		DRUM WASHER	1
28	45000517		CENTRE STEM	1
29			SKT HD CAP SCREW M6 X 50	4
30	B2092		CIRCLIP	1
31	B12040	B6061	O RING	1

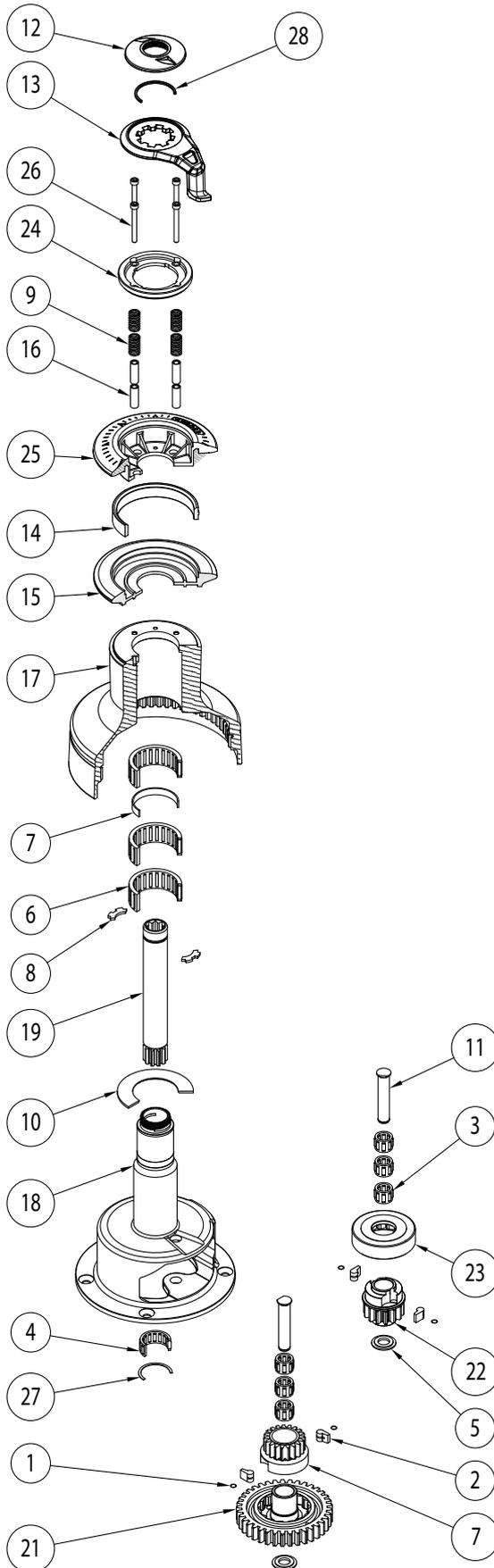
# 6. Winch

54ST Ocean Winch spares



ITEM	PART NO GREY	PART NO CHROME	DESCRIPTION	QTY
1	1260/7		PAWL SPRING	4
2	1264/8		PAWL	4
3	1300/SA2		BEARING ASSY	3
4	15000017		ROLLER BEARING	3
5	15000019		ROLLER BEARING	1
6	15000646		WASHER	1
7	15000981		WASHER	1
8	15044121		ROLLER BEARING	3
9	45000166	45000100	TOP CAP	1
10	45000102		COLLET	2
11	45000505		UPPER CROWN	1
12	45000508		STRIPPER RING	1
13	45000509		LOWER CROWN	1
14	45000512		SPRING	4
15	45000513		SPACER	4
16	45000519		PAWL GEAR	1
17	45000520		RATCHET GEAR	1
18	45000522		RATCHET GEAR	1
19	45000523		GEAR SPINDLE	1
20	45000525		SPRING RETAINER	1
21	45000534		DRUM WASHER	1
22	45000603		FEEDER ARM	1
23	45000614	45000615	DRUM	1
24	45000617		CENTRE STEM	1
25	45000618		SPINDLE	1
26	45000621		PAWL GEAR	1
27	45000624		GEAR SPINDLE	1
28			SKT HD CAP SCREW M6 X 50	4
29	B2092		CIRCLIP	1
30	B12040	B6061	O RING	1

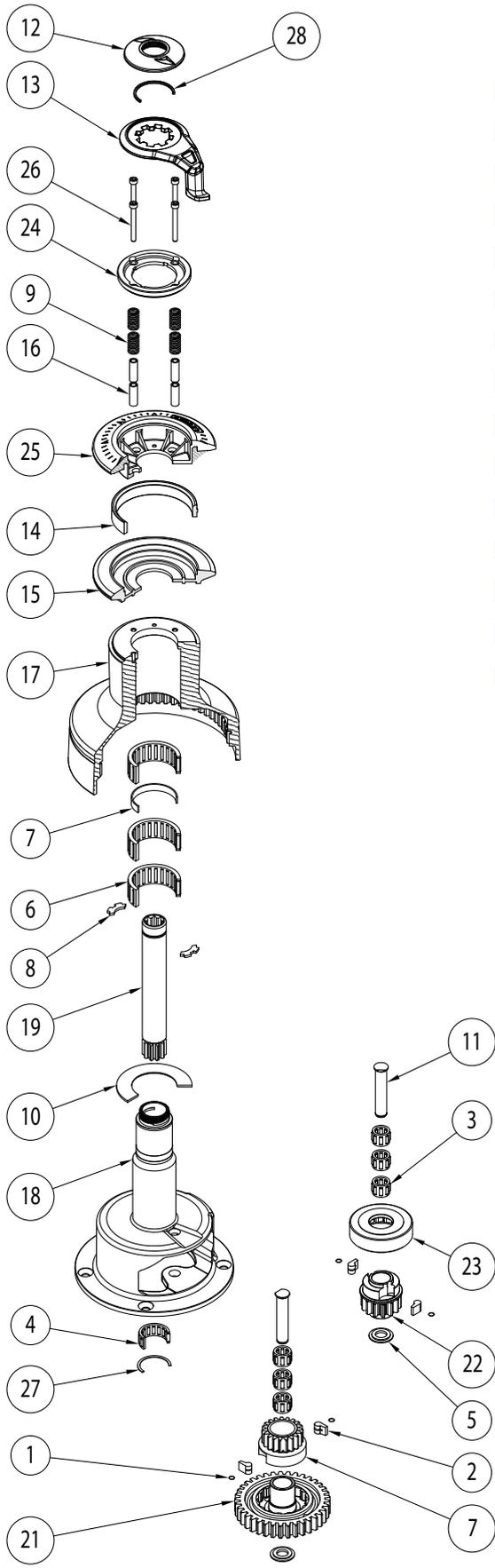
58ST Ocean Winch spares



ITEM	PART NO GREY	PART NO CHROME	DESCRIPTION	QTY
1	1260/7		PAWL SPRING	4
2	1264/8		PAWL	4
3	15000017		ROLLER BEARING	6
4	15000019		ROLLER BEARING	1
5	15000646		WASHER	2
6	15044121		ROLLER BEARING	3
7	15065115		SPACER	1
8	45000102		COLLET	2
9	45000512		SPRING	4
10	45000534		WASHER	1
11	45000624		GEAR SPINDLE	2
12	45000766	45000700	TOP CAP	1
13	45000703		FEEDER ARM	1
14	45000708		STRIPPER RING	1
15	45000709		LOWER CROWN	1
16	45000713		SPACER	4
17	45000714	45000715	DRUM	1
18	45000717		CENTRE STEM	1
19	45000718		SPINDLE	1
20	45000719		PAWL GEAR	1
21	45000720		RATCHET GEAR	1
22	45000721		PAWL GEAR	1
23	45000722		RATCHET GEAR	1
24	45000725		SPRING RETAINER	1
25	45000785		UPPER CROWN	1
26			SKT HD CAP SCREW M6 X 55	4
27	B2092		CIRCLIP	1
28	B12041	B6061	O RING	1

# 6. Winch

65ST Ocean Winch spares



ITEM	PART NO GREY	PART NO CHROME	DESCRIPTION	QTY
1	1260/7		PAWL SPRING	4
2	15000017		ROLLER BEARING	6
3	15000019		ROLLER BEARING	1
4	15000301		SUPER PAWL LARGE	4
5	15000404		SPACER	1
6	15000646		WASHER	2
7	15044121		ROLLER BEARING	3
8	45000102		COLLET	2
9	45000512		SPRING	4
10	45000533		WASHER	1
11	45000534		WASHER	1
12	45000624		GEAR SPINDLE	2
13	45000766	45000700	TOP CAP	1
14	45000708		STRIPPER RING	1
15	45000713		SPACER	4
16	45000719		PAWL GEAR	1
17	45000725		SPRING RETAINER	1
18	45000785		UPPER CROWN	1
19	45000789		LOWER CROWN	1
20	45000818		SPINDLE	1
21	45000821		PAWL GEAR	1
22	45000850		CENTRE STEM	1
23	45000851		RATCHET GEAR	1
24	45000853	45000852	DRUM	1
25	45005183		RATCHET GEAR	1
26	45005184		FEEDER ARM	1
27			SKT HD CAP SCREW M6 X 55	4
28	B2092		CIRCLIP	1
29	B12041	B6061	O RING	1