

#### Lewmar Block Range



#### Page 277 Control Blocks - Control lines & hand loads

- Long glass-fibre reinforced composite cheeks
- · Stainless steel ball bearings



#### Page 282 Synchro Cruising blocks

- Stainless steel straps and glass-fibre reinforced cheeks
- High density, free-spin plain bearing

- Easy to use, patented shackle post lock
- Sheave / bearing / pin & line size optimised for efficiency



### Page 287 HTX Range - Racing and Cruising Blocks

- Alloy cheeks
- Side thrust ball bearings
- · Head design inspired by racing blocks

- High load capacities
- Stainless Steel Range Available



### Page 293 Racing Range

- Monocoque alloy construction
- Ball and roller bearings

- Light weight High strength to weight ratio
- High level of type optimisation webbing, runner: Halyard blocks etc



#### Page 302 Special Application Blocks

- Snatch Blocks
- Pivoting Lead Blocks

Loop Blocks



#### Page 303 Custom Hardware for Superyacht Projects

- Performance hardware suitable for high loads generated on superyachts
- Designed to meet individual functional specification
- Customised to blend with overall design aesthetic



#### Page 306 Soft Loop Blocks

- Lightweight, ultra-tough continous loop blocks
- Designed for high-performance sailing

Note: Lewmar blocks are intended for sail control line handling on sail boats only.

Buyers intending to use them for any other purpose should seek independent professional advice as to their suitability. Lewmar accepts no liability arising from such other uses.



#### Technical Reference – Choosing the right purchase system

Lewmar manufactures a diverse range of blocks to suit all marine applications. This guide aims to help you to choose the best purchase system and the appropriate Lewmar products to suit your application.

#### Why do we need purchase systems?

As a guide, the average person can:

- Pull vertically down a force equivalent to their body weight (for a short period)
- When fully braced, pull intermittently sideways with one hand to 25kg and with two hands to 50kg
- Adjust control lines frequently loaded to 25kg
- Exert 15kg single-handed and 25kg double-handed on a winch handle

Human force can be multiplied through a purchase system made up of block systems and/or winches, enabling comfortable operation of high-loaded sailboat controls.





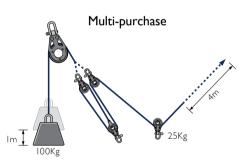
### Which purchase system?

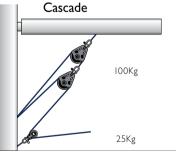
#### Multi-Purchase System

- Ideal for mainsheet traveller systems
- Provides full range of adjustment

#### Cascade System

- Ideal for a vang, backstay or outhaul
- Achieves a smaller range of adjustment
- Provides high purchase with minimum blocks
- Line type and diameter can be specified in line with load on each part of system
- Enables control lines to be led to either side of the boat, for example, with a backstay adjustor
- All blocks must be free to travel their full working length without danger of catching



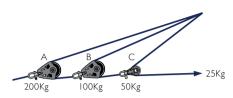


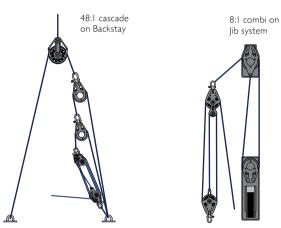
### Some typical systems in use on current boats

	BACKSTAY	MAINSHEET TRAVELLER	MAINSHEET COARSE TUNE	EXTRA PURCHASE FOR MAINSHEET FINE TUNE	JIB TRAVELLER	VANG	CUNNINGHAM
RACING DAYBOAT	16:1 CASCADE	2:1	2:1	4:1 MULTI-PURCHASE	PLUNGER	8:1 COMBINATION	4:1 CASCADE
SMALL CRUISER	FIXED	2:1	4:1 MULTI-PURCHASE	-	PLUNGER	4:1 MULTI-PURCHASE	N/A
SMALL RACING YACHT	16:1 COMBINATION	8:1 MULTI-PURCHASE	6:1 MULTI-PURCHASE	4:1 MULTI-PURCHASE	8:1 COMBINATION	20:1 COMBINATION	4:1 CASCADE
MEDIUM CRUISER	FIXED	4:1	4:1	N/A	2:1 WITH PLUNGER	5:1	N/A
MEDIUM RACING YACHT	HYDRAULIC	12:1 COMBINATION	2:1 WINCHED	N/A	12:1 COMBINATION	36:1 COMBINATION	6:1 COMBINATION
LARGE CRUISER	HYDRAULIC	6:1	4:1 WINCHED	N/A	2:1 WITH PLUNGERS	8:1	4:1
LARGE RACING YACHT	HYDRAULIC	2:1 WINCHED	2:1 WINCHED	N/A	2:1 WINCHED	HYDRAULIC	6:1 COMBINATION

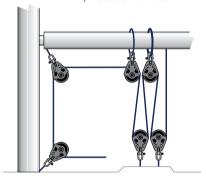
#### Combination Cascade/Multi-Purpose System

- Achieves compromise between power and range requirements
- Ideal for use on backstay, jib, and mainsheet controls





4:1 purchase on Mainsheet



#### Coarse/Fine Tune System

- Coarse purchase ideal for racing mainsheet systems
- Used for moving large amounts of unloaded mainsheet during mark rounding

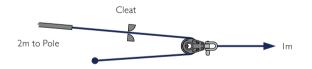
Combination fine purchase perfect for playing the mainsheet when beating



5:1 Coarse System

#### Reverse Purchase

- Ideal for an asymmetric pole launch system
- Offers fast movement and a greater range on lightly-loaded systems
- Cleat is located on control line, which is loaded to twice the pole launch rope



#### How much purchase power is needed?

To identify the amount of purchase power required, carry out the following calculation:

$$\frac{\text{Output Force}}{\text{Input from Control Line/Winch}} = \text{Purchase Required} \quad \frac{200 \text{kg}}{25 \text{kg}} = 8:1$$

The table gives some examples of typical purchases used by Lewmar customers.

#### Typical purchase systems

BOAT SIZE	4M/13FT	6M/20FT	8м/26FT	10M/33FT	12M/39FT	14M/45FT	16M/53FT
MAINSHEET - HAND	3:1	4:1	4:1	5:1-10:1	8:1-24:1	-	-
MAINSHEET - WINCHED	-	-	-	3:1	4:1	4:1	4:1
VANG - CRUISING	4:1	4:1	4:1	6:1	8:1	10:1	10:1
VANG RACING	5:1	6:1	8:1	12:1	24:1	36:1	48:1
CAR TOW - CRUISING	-	-	2:1	2:1	2:1	3:1	3:1
CAR TOW - RACING	-	2:1	3:1	6:1	10:1	2:1 (WINCH)	2:1 (WINCH)

#### Winched purchases

To identify the amount of purchase power required in winched purchase, first calculate the winch output:

The table suggests the pulling power that can be generated.

#### Typical winch output loads

•	/picar willen o	Lipat loa	Ī	l	1	I
	WINCH SIZE	30	40	45	50	55
	ONE HANDED INPUT – 15 KG ON HANDLE = WINCH OUTPUT LOAD	450KG	6оокс	66окс	720KG	-
	TWO HANDED INPUT – 25 KG ON HANDLE = WINCH OUTPUT LOAD	-	-	1100KG	1200KG	1350KG

#### Which Bearing?

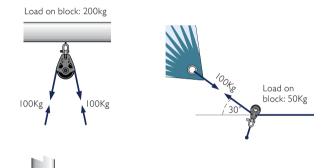
APPLICATION	BEARING	RECOMMENDED LEWMAR RANGE
FREQUENTLY ADJUSTED, FREE, FAST-RUNNING SYSTEMS SUCH AS SHEETS OR CONTROL LINES	BALL BEARING SHEAVE	CONTROL BLOCK
HIGH-STATIC LOADINGS, ADJUSTED LESS FREQUENTLY AND MAINLY CLEATED, SUCH AS HALYARDS	FREE SPIN BEARING	SYNCHRO BLOCK
FREQUENTLY ADJUSTED, HIGH LOADED SYSTEMS, USING MODERN LINE TECHNOLOGY WITH HIGH LOAD ON REDUCED LINE DIAMETERS.	FREE SPIN BEARING WITH BALL BEARING SIDE THRUST.	HTX BLOCK
A COMBINATION OF THE ABOVE	TORLON ROLLER BEARING	RACING BLOCK

#### Which Size/Load Block?

- Each Lewmar block has a specified Working Load Limit (WLL), listed in the product specification table
- Match the input from Control Line/Winch to the WLL of the block

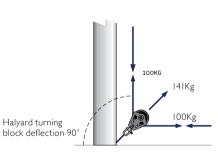
• Note that the line's angle of deflection around the sheave affects the load exerted on the block (see table below)

CHANGE OF ANGLE	BLOCK LOAD AS % OF LINE LOAD	CHANGE OF ANGLE	BLOCK LOAD AS % OF LINE LOAD
180°	200%	90°	141%
170°	199%	8o°	129%
160°	197%	70°	115%
150°	193%	6o°	100%
140°	187%	50°	84%
135°	184%	45°	76%
130°	181%	40°	68%
120°	173%	30°	52%
110°	164%	20°	35%
100°	153%	10°	17%
		o°	0%

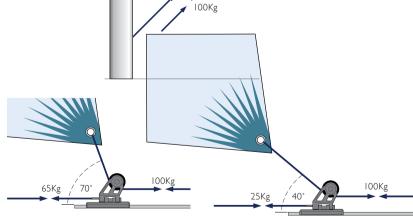


200Kg

Vang turning block deflection 180°



	1					
VERTICAL GENOA SHEET ANGLE	TOW LOAD AS % OF SHEET LOAD					
70°	65%					
60°	50%					
50°	35%					
40°	25%					
MAINSHEET TRAVELLER TOWING LOAD						
GUIDE % OF MAINSHEET LOAD	25%					



100Kg

#### Additional Recommendations

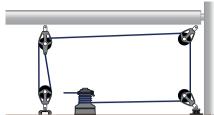
- Always choose a sheave diameter at least 7x the line diameter.
- Ensure that blocks are always fitted so they align with the lines passing through them, particularly on multiple blocks and where lines are periodically slack.
- All Lewmar products have been designed, tested, and developed to achieve best possible efficiency; however, no purchase system is 100% efficient. The force achieved at the working end of the purchase will be slightly less than the human load multiplied by the purchase. When calculating the purchase required to achieve a known load, we would recommend allowing a factor of 1.05 per block. Multiply by the number of 180° turns in the rope make in a system to be certain of 'fingertip' control.

### Mainsheet Systems – Typical Arrangement

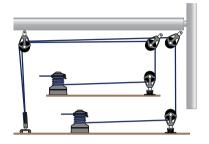




Half German



Double German



4:I Fiddle



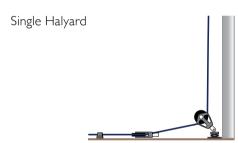
6:1 Triple



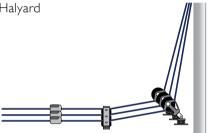
6:1/24:1



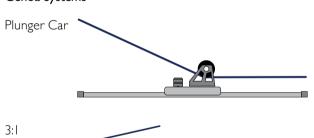
Halyards



3 Halyard



Genoa Systems



2:1



### Boom Vang

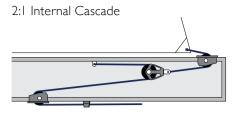




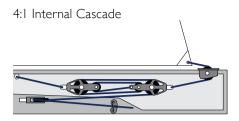
6:1 Double Ended



### Outhaul







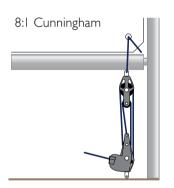
### Traveller Systems

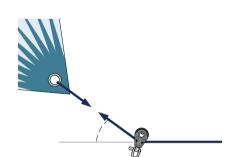




### Cunningham

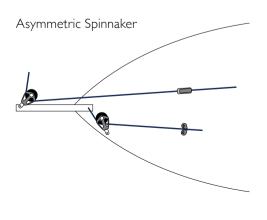






Barber Hauler

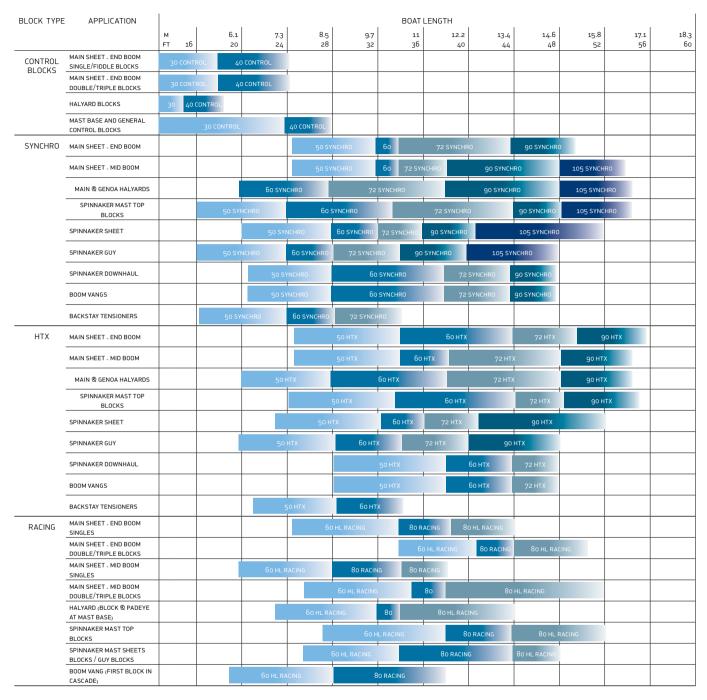
### Miscellaneous



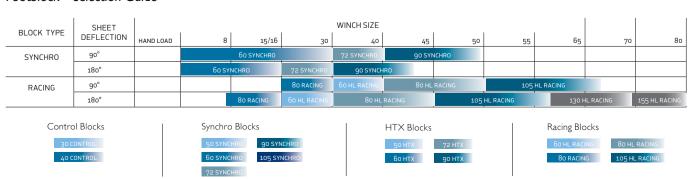




#### Blocks - Selection Guide



#### Footblock - Selection Guide





### **Control Blocks**

Ideal for use with hand-held loads, Lewmar's Control Blocks feature lightweight, performance load-bearing capacity. MRT (Metal Replacement Technology) and a stainless steel central race and balls provide a weight advantage, while Long Fibre Technology offers exceptional strength and durability. The open design allows sand and salt to be flushed out easily, keeping maintenance simple.

- Lightweight
- Very high strength
- Impact resistant
- Reduced friction
- Easy maintenance
- Optimised for hand control
- A Long fibre cheek
- B High strength glass-filled sheave
- Marked sheave Showing line size and safe working load
- Stainless steel balls and ball groove Avoids deformation and loss of performance



#### **Applications**

Ball bearing blocks are typically used for medium and dynamic loads in:

- Control line applications
- Mainsheets for dinghies and keelboats
- Spinnaker sheets, barber haulers
- Genoa sheets
- Dinghy applications





### Control Blocks





PART NO	SHEAVE Ø	WORKING LOAD LIMIT				WEI	GHT
		KG	LB	G	oz		
29901320BK	30	200	440	30	1		
29901420BK	40	240	528	54	1.9		

Single



PART NO	SHEAVE WORKING WE LOAD LIMIT				GHT
		KG	LB	G	oz
29901321BK	30	200	440	28	1
29901421BK	40	240	528	52	1.83

Double



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEIGHT	
		KG	LB	G	oz
29901322BK	30	300	660	47	1.65
29901422BK	40	480	1056	112.5	3.97

Triple



PART NO	SHEAVE Ø	WORKING LOAD LIMIT				GHT
		KG	LB	G	oz	
29901323BK	30	500	1100	85	3	
29901423BK	40	720	1584	187.5	6.61	

Single & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT				WEI	GHT
		KG	LB	G	OZ		
29901324BK	30	200	440	33	1.16		
29901424BK	40	240	528	56.5	1.99		

Double & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT				WEI	GHT
		KG	LB	G	oz		
29901325BK	30	300	660	50	1.76		
29901425BK	40	480	1056	116.5	4.11		

#### Control Blocks

### Triple & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	OZ
29901326ВК	30	500	1100	90	3.17
29901426BK	40	720	1584	192.5	6.79

Single Fixed Strap - St. Steel Sheave

DESIGNED FOR USE

WITH WIRE. 30MM SUITS MAX 3MM

 $(^{1}/_{8}")$  WIRE

40MM SUITS MAX 6MM

 $(^{1}/_{4}")$  WIRE

WEIGHT

1.2

2.5

WORKING

LOAD LIMIT

528

890

SHEAVE

30

### Single Fixed Strap



PART NO	SHEAVE Ø	WORKING LOAD LIMIT				GHT
		KG	LB	G	oz	
29901341BK	30	200	440	26	0.92	
29901441BK	40	240	528	44	1.55	

#### **Shackle Post Dimensions**



	POST DIAMETER		TO FIT MAX PIN 0	
	ММ	IN	ММ	IN
30MM SINGLE / DOUBLE	7.1	2/7	4	5/32
30MM TRIPLE	9.25	3/8	5	<sup>3</sup> / <sub>16</sub>
40MM SINGLE / DOUBLE	8.0	<sup>5</sup> / <sub>16</sub>	4	5/32
40MM TRIPLE	11.5	7/16	6	1/4

#### Line Size



	MAXLI	NE SIZE	
	мм	IN	
30MM CONTROL	8	<sup>5</sup> / <sub>16</sub>	
40MM CONTROL	10	3/8	

#### Suitable Block Upstand

30 and 40mm Control blocks fit block upstand part no 29904046 For more info refer to p. 301





	FIT SNAP SHACKLE
30MM CONTROL SINGLE / DOUBLE	29925040
30MM CONTROL TRIPLE	29926040
40MM CONTROL SINGLE / DOUBLE	29925040
40MM CONTROL TRIPLE	29927240

For more info refer to p. 302



PART NO	SHEAVE Ø	WORKING LOAD LIMIT				GHT	l
		KG	LB	G	oz	ı	
29901326ВК	30	500	1100	90	3.17	ı	
29901426вк	40	720	1584	192.5	6.79	ı	

### Single Fixed Strap & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	oz
29901314BK	30	200	440	31	1.09

### Triple & Cleat

PART NO

29901301BK

29901401BK



PART NO	SHEAVE Ø	WORKING LOAD LIMIT*		WE	GHT
		KG	LB	G	OZ
29901328ВК	30	500	1100	135	4.76
29901429BK	40	720	1584	247.5	8.73

### Single with Becket & Cleat



	PART NO	SHEAVE Ø	WORKING LOAD LIMIT*		WEIGHT	
			KG	LB	G	oz
	29901428BK	40	240	528	56.5	1.99
-						

\* Block WLL, cleat WLL 120kg

#### Cleat Used

Control blocks with cam use the following cleats

	USE CLEAT	WORKING LOAD LIMIT				
		KG	LB			
30 / 40MM CONTROL	29104100BK	120	264			

#### Pad Eyes





Wide range of pad eyes available, refer to page 306 for more information

### Control Blocks

### Triple with Becket & Cleat



•							
PART NO	SHEAVE Ø	WORKING LOAD LIMIT*		WEI	GHT		
		KG	LB	G	oz		
29901330BK	30	500	1100	140	5		
29901430BK	40	720	1584	252.5	8.91		

### Single Web



PART NO	SHEAVE Ø	WORKING LOAD LIMIT				GHT	
		KG	LB	G	OZ		
29901447BK	40	240	528	39.5	1.39		

#### Thru-Deck Block



,	Tanc	ICIII			
PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	oz
29901361ВК	30 SINGLE	200	440	26	0.92
29901362ВК	30 TANDEM	200	440	45	1.59

#### Cheekblock



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	OZ
29901360ВК	30	200	440	18.5	0.65
29901460ВК	40	240	528	43	1.52

Vertical Lead Block



	PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
			KG	LB	G	oz
	29901363ВК	30	200	440	48	1.69
	29901463ВК	40	240	528	70	2.4

Pivoting Exit Block



ı	PART NO	SHEAVE Ø	WORKING LOAD LIMIT*				WEI	GHT
			KG	LB	G	oz		
2	9901365ВК	30	200	440	80	2.82		

<sup>\*</sup> Block WLL, cleat WLL 120kg

#### Linked Blocks



PART NO	SHEAVE WORKING WEI				GHT
		KG	LB	G	oz
29901411BK	40	240	528	88	3.1

### Footblock



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	oz
29194061	40 SINGLE	750	1653	66	2.33
29194062	40 DOUBLE	750	1653	121	4.27

COMES WITH A STAINLESS STEEL BASE PLATE AND CAN BE USED AS MINIATURE ORGANISERS OR DEFLECTORS FOR LINES BEING RETURNED TO THE COCKPIT.

USE M8 (5/16) FIXINGS - NOT INCLUDED

### Tweaker Block



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	oz
29900240	30	120	265	28	1
29900340	40	140	309	76	3

<sup>\*</sup> Block WLL, cleat WLL 120kg

### 60mm Ratchet Blocks

Single Ratchet & Becket

SHEAVE Ø

PART NO

29901665ВК

WORKING

LOAD LIMIT

882

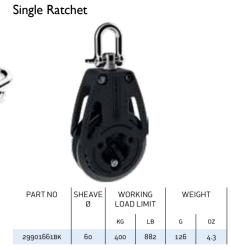
WEIGHT

ΟZ

4.8

Only suitable to use with hand loads. For winched loads, refer to the Synchro, HTX or Racing ranges.





### Shackle Post Dimensions



	POST DIAMETER TO FIT MAX PIN Ø			
	мм	IN	мм	IN
60MM RATCHET SINGLE	9.5	3/8	5	<sup>3</sup> / <sub>16</sub>
60MM RATCHET TRIPLE	10.0	2/5	6	1/4

#### Line Size



### Fit Snap Shackle

	FIT SNAP SHACKLE	
60MM RATCHET SINGLE	29926040	
60MM RATCHET TRIPLE	29927240	U
or more info refe	r to p. 302	Color

### Fit Traveller Upstand



	FII TRAVELLER UPSTAND
60MM SINGLE RATCHET	SIZE 1 NTR
60MM TRIPLE RATCHET	SIZE 2 NTR ® HTX



PART NO	SHEAVE WORKING WE LOAD LIMIT*				GHT
		KG	LB	G	oz
29901667ВК	60	400	882	288	10.1

<sup>\*</sup> Refers to block WLL, cleat WLL 180kg

# Triple Ratchet, Becket & Cleat



PART NO	SHEAVE Ø	WORKING LOAD LIMIT*		WEIG	БНТ
		KG	LB	G	OZ
29901668вк	60	1000	2204	524	17.7

\* Refers to block WLL, cleat WLL 180kg



PART NO	SHEAVE Ø			WEIG	SHT
		KG	LB	G	oz
29901670ВК	60	1000	2204	538	18.2
		Ø	Ø LOAD	Ø LOAD LIMIT*	Ø LOAD LIMIT*

\* Refers to block WLL, cleat WLL 180kg

### Suitable Block Upstand

60mm triple ratchet blocks fit upstand part no 29904050 For more info refer to p. 301



#### Cleat

Cicae		1	
	USE CLEAT	WORKING L	OAD LIMIT
		KG	LB
60MM RATCHET BLOCK	29104110BK	180	396





Wide range of pad eyes available, refer to page 306 for more information



# Synchro Blocks

Lewmar Synchro blocks are engineered for speed, efficiency and superior handling. We use a combination of scientifically optimised block geometry, a Free-Spin bearing and self-aligning head to reduce friction and increase efficiency by up to 40% over budget blocks on mainsheet systems.

Each component is perfectly synchronised with the movement of the rope, providing you with an easier, smoother transfer of power from deck to sail and less wear on your rope.

- Stainless steel strap for improved strength and longer service life
- Stiff glass fibre reinforced cheeks to prevent lines from wedging
- Simple switch to change from swivelling to fixed shackle

- Easy to use shackle post lock
- Shackle post Fits travellers
- Lock mechanism enables 30° float
- Larger sheave diameter Minimises rope friction
- High density free-spin bearing reduces axle diameter for superior efficiency

#### **Applications**

Plain bearing blocks are typically used for heavy and static loads in:

- Halyard tuning
- Mainsheet systems
- Mast foot blocks
- Mast head blocks
- Boom vang



#### Synchro Blocks

#### Head Design

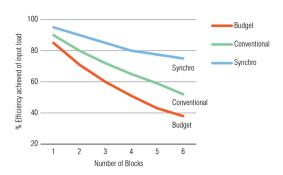
Head can be positioned for use in line or at 90 degrees – or left to rotate freely when in unlocked position. When locked allows 30° "float" on shackle post to improve alignment of block.



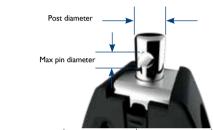
# Higher efficiency – for faster sail handling and less rope wear

Independent tests show Synchro blocks offer increased efficiency over conventional designs.
Calculations over a 6-block mainsheet system, indicated Synchro blocks can deliver up to 40% greater efficiency than budget products – resulting in better responsiveness and improved sailing performance.

### Efficiency improvements in multi block systems



#### **Shackle Post Dimensions**



	POST DI	AMETER	TO FIT M	IAX PIN Ø
	мм	IN	ММ	IN
50MM SYNCHRO	7.9	5/16	4	5/32
бомм synchro	9.4	3/8	5	3/16
72MM SYNCHRO	11.9	15/32	6	1/4
домм сунсню	16.5	21/32	9.8	3/8

### Suitable Traveller Upstand



	FIT TRAVELLER UPSTAND
50MM SYNCHRO	
60MM SYNCHRO	SIZE 1 NTR
72MM SYNCHRO	SIZE 1 HTX/ SIZE 2 NTR
90MM SYNCHRO	SIZE 2 HTX/ SIZE 3 NTR

#### Suitable Snap Shackles



	FIT SNAP SHACKLE
50MM SYNCHRO	29925040
6омм synchro	29926040
72MM SYNCHRO	29927240
gomm synchro	29929040

### Cleat Used

	USE CLEAT		RKING LIMIT LB
50MM SYNCHRO	29104100BK	120	264
бомм synchro	29104110BK	180	396
72MM SYNCHRO	29104110BK	180	396

### Line Size

Control of the least of the lea	1		l	
	OPTIMUM	LINE SIZE	MAXLI	NE SIZE
	ММ	IN	ММ	IN
50MM SYNCHRO	6	1/4	10	3/8
6омм synchro	8	5/16	10	3/8
72MM SYNCHRO	10	3/8	12	1/2
90MM SYNCHRO	12	1/2	14	<sup>9</sup> /16

### Suitable Block Upstands



Rubber boot upstand kit 29195065 fits 60mm Synchro 29196065 fits 72mm Synchro 29197265 fits 90mm Synchro



Spring upstand 29904050 fits 50mm Synchro

#### Pad Eyes







Wide range of pad eyes available, refer to page 306 for more information

### Synchro Blocks

### Single



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	oz
29925001BK	50	450	990	67	2.36
29926001BK	60	800	1760	115	4.06
29927201BK	72	1100	2420	190	6.69
29929001BK	90	2000	4400	413	14.57

### Double



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT	
		KG	LB	G	oz	
29925002BK	50	450	990	142	5.01	
29926002ВК	60	800	1760	251	8.84	
29927202BK	72	1100	2420	406	14.29	
29929002ВК	90	2000	4400	966	34.00	

### Triple



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	oz
29925003BK	50	450	990	226	7.96
29926003ВК	60	800	1760	371	13.06
29927203BK	72	1100	2420	618	21.75
29929003BK	90	2000	4400	1389	48.89

### Single & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	oz
29925004BK	50	450	990	81	2.85
29926004ВК	60	800	1760	127	4.48
29927204BK	72	1100	2420	210	7.41
29929004BK	90	2000	4400	458	16.15

### Double & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	oz
29925005BK	50	450	990	164	5.77
29926005ВК	60	800	1760	261	9.19
29927205BK	72	1100	2420	415	14.61
	•				

Single Becket & Cam



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEIGHT	
		KG	LB	G	oz
29925009ВК	50	450	990	123	4.30

\* Block WLL, cleat WLL shown p283

Triple, Becket & Cam



PART NO	SHEAVE Ø	WORKING LOAD LIMIT *		WEI	GHT
		KG	LB	G	OZ
29925010BK	50	450	990	282	9.93
29926010ВК	60	800	1760	447	15.73
29927210BK	72	1100	2420	820	28.86

<sup>\*</sup> Block WLL, cleat WLL shown p283

Single Fiddle



PART NO	SHEAVE WORKING WE LOAD LIMIT				GHT
		KG	LB	G	oz
29925031BK	50	450	990	94	3.31
29926031ВК	60	800	1760	156	5.50
29927231BK	72	1100	2420	250	8.80
29929031BK	90	2000	4400	544	19.19

### Synchro Blocks

### Single Fiddle & Becket



PART NO	SHEAVE WORKING V Ø LOAD LIMIT				EIGHT	
		KG	LB	G	oz	
29925034BK	50	450	990	98	3.45	
29926034ВК	60	800	1760	166	5.85	
29927234BK	72	1100	2420	275	9.70	
29929034BK	90	2000	4400	589	20.77	

### Single Fiddle & Cam



PART NO	SHEAVE Ø	WORKING LOAD LIMIT*		WEI	GHT
		KG	LB	G	oz
29925037BK	50	450	990	139	4.89
29926037ВК	60	800	1760	221	7.78
29927237BK	72	1100 2420		339	11.93

<sup>\*</sup> Block WLL, cleat WLL shown p.283

### Single Fiddle, Becket & Cam



PART NO	SHEAVE Ø	WORKING LOAD LIMIT*		WEI	GHT
		KG	LB	G	oz
29925039ВК	50	450	990	145	5.10
29926039ВК	60	800	1760	234	8.24
29927239BK	72	1100	2420	356	12.53
29929039ВК	90	2000	4400	879	27.12

<sup>\*</sup> Block WLL, cleat WLL shown p.283

### Halyard Block



The toggle head of the halyard blocks is designed to fit on the studs commonly found at mast bases – check the diameter of the stud against the width of the block jaws (A) and pin diameter (B)



								HEAD D	ETAILS		
PART NO	SHEAVE DIAMETER	WORKIN LIN	IG LOAD VIT	WEI	GHT	WIE		PI		SPACE	
	ММ	KG	LB	G	oz	ММ	IN	ММ	IN	ММ	IN
29925021BK	50	450	990	73	2.57	13	1/2	5	<sup>3</sup> / <sub>16</sub>	8.2	5/16
29926021ВК	60	800	1760	122	4.29	15	37/64	6	7∕32	6.9	9/32
29927221BK	72	1100	2420	198	6.98	18	45/64	8	5/16	9.6	3/8
29929021BK	90	2000	4400	414	14.57	23	<sup>29</sup> / <sub>32</sub>	10	<sup>25</sup> /64	13.9	17/32



#### Synchro Footblocks

Synchro Footblocks feature alloy cheeks, fixing isolators, and a moulded base plate to prevent sealant ingress into the sheave.

Jamming footblocks are designed to hold light hand loads only.

- Standard and jammer options can be double stacked
- Two-step jammer action keeps lever close to side of the block
- Optimised jammer shape holds line central on the sheave
- Tough alloy cheeks
- Synchro sheave loads match the same sized blocks

- Twin fixings with inserts
- Wide head for a solid base, block will not "roll" on the deck
- Moulded base plate with recess to hold sealant around fixing screws and prevent ingress onto the bearing and sheave

#### Aluminium Footblock



PART NO	SHEAVE WORKING LOAD LIMIT				GHT
		KG	LB	G	oz
29926061ВК	60	800	1764	162	5.70
29927261BK	72	1200	2645	229	8.10
29929061ВК	90	2000	4409	430	15.20

USE M8 (5/16) FIXINGS FOR THE 60/72MM SHEAVES AND M10 FOR THE 90MM SHEAVES - NOT INCLUDED

### Aluminium Footblock with Jammer

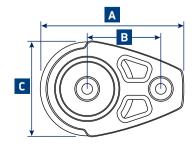


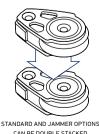
PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEIGHT	
		KG	LB	G	oz
29926064ВК	60	800	1764	190	6.70
29927264ВК	72	1200	2645	250	8.80
29929064вк	90	2000	4409	480	16.90

USE M8 (5/16) FIXINGS FOR THE 60/72MM SHEAVES AND M10 FOR THE 90MM SHEAVES - NOT INCLUDED

#### Synchro Footblock Footprint

PART NO		A	E	3	(	
	мм	IN	ММ	IN	мм	IN
6омм гоотвьоск	98.0	3 <sup>7</sup> /8	51.0	2	59	25/16
72MM FOOTBLOCK	110.6	4 <sup>5</sup> ⁄16	58.0	25/16	71	2 <sup>13</sup> / <sub>16</sub>
домм гоотвьоск	134.0	5 <sup>4</sup> ⁄16	69.0	2 <sup>11</sup> / <sub>16</sub>	89	3½





STANDARD AND JAMMER OPTIONS

CAN BE DOUBLE STACKED

THE UPPER SHEAVE SHOULD NOT BE

LOADED BEYOND 60% OF WLL



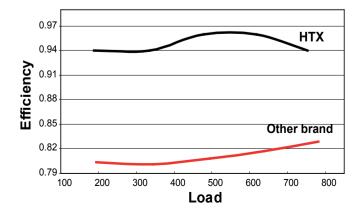
### **HTX Blocks**

Years of design and manufacturing experience, combined with collaboration with boat builders, designers, and sailors, has resulted in the Lewmar HTX Hardware Range. Drawing upon the design of the racing range, the HTX blocks are constructed simply from high quality materials, providing enhanced reliability. Ideal for frequently adjusted, highly loaded systems using modern line technology and reduced line diameters.

- Strong aluminium side cheeks
- Central plain bearing for efficiency at high loads
- Side thrust Delrin ball bearings
- Head design inspired by Lewmar Racing Range, complete with grub screw swivel head locking mechanism



- Head pin design inspired by Lewmar Racing series block
- E High Load capacity and large line size



Higher efficiency – for faster sail handling and less rope wear.

HTX blocks are more efficient than alternative brand using similar material due to machined bearing pin surface.

HTX block efficiency improves above 450kg as acetal sheaves become self-lubricating at this point.

### HTX Blocks

### Single



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WE	IGHT
		KG	LB	G	oz
29195001	50	800	1762	135	4.7
29196001	60	1100	2422	215	7.5
29197201	72	2000	4405	445	15.6
29199001	90	3500	7709	735	25.8

### Double



PART NO	SHEAVE Ø	WOR LOAD		WEI	GHT
		KG	LB	G	OZ
29195002	50	800	1762	217	7.6
29196002	60	1100	2422	331	11.6
29197202	72	2000	4405	552	19.3

### Triple



PART NO	SHEAVE Ø		WORKING LOAD LIMIT		GHT
		KG	LB	G	oz
29195003	50	800	1762	305	10.7
29196003	60	1100	2422	426	14.9

Single & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEIGHT	
		KG	LB	G	oz
29195004	50	800	1762	150	5.3
29196004	60	1100	2422	226	7.9
29197204	72	2000	4405	482	16.9
29199004	90	3500	7709	936	32.8

Double & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	oz
29195005	50	800	1762	232	8.1
29196005	60	1100	2422	319	11.2

Single Becket & Cam



PART NO	SHEAVE Ø	WORKING LOAD LIMIT*		WEI	GHT
		KG	LB	G	oz
29195009	50	800	1762	320	11.2
29196009	60	1100	2422	414	14.5

<sup>\*</sup> Block WLL, cleat WLL shown p.289

Triple, Becket & Cam



PART NO	SHEAVE Ø	WORKING LOAD LIMIT *				GHT
		KG	LB	G	oz	
29195010	50	800	1762	511	17.9	
29196010	60	1100	2422	710	24.9	

<sup>\*</sup> Block WLL, cleat WLL shown p.289

### Web Single



PART NO	SHEAVE Ø	WORKING LOAD LIMIT				WEI	GHT
		KG	LB	G	oz		
29195047	50	800	1762	80	2.8		
29196047	60	1100	2422	148	5.2		
29197247	72	2000	4405	283	9.9		

#### **HTX Blocks**

#### Fiddle



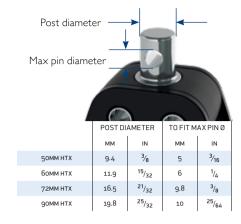
PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	oz
29195031	50	800	1762	165	5.8
29196031	60	1100	2422	257	9.0
29197231	72	2000	4405	530	18.5

#### Fiddle & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT				WEI	GHT
		KG	LB	G	OZ		
29195034	50	800	1762	175	6.1		
29196034	60	1100	2422	269	9.4		
20107227	72	2000	/. /. O.E.	E60	10.6		

#### **Shackle Post Dimensions**



#### Line Size

THE REAL PROPERTY OF THE PARTY	MAX SIZ MM	
50ММ НТХ	10	3/8
бомм нтх	12	1/2
72MM HTX	14	<sup>9</sup> / <sub>16</sub>
90мм нтх	16	5/8

### Cleat Used

	USE CLEAT		RKING LIMIT LB
50ММ НТХ	29104100BK	120	264
6омм нтх	29104110BK	180	396
72ММ НТХ	-	230	507

### Fiddle & Cam



PART NO	SHEAVE Ø	WORKING LOAD LIMIT *		WEI	GHT
		KG	LB	G	oz
29195037	50	800	1762	335	11.7
29197237	72	2000	4405	748	26.2

\* Block WLL, cleat WLL shown on the right

### Fiddle, Becket & Cam



PART NO	SHEAVE Ø	WORKING LOAD LIMIT *		WEI	GHT
		KG	LB	G	OZ
29195039	50	800	1762	346	12.1
29196039	60	1100	2422	460	16.1
29197239	72	2000	4405	776	27.2

<sup>\*</sup> Block WWL, cleat WLL shown on the right

### Suitable Traveller Upstand



	FIT TRAVELLER UPSTAND
50ММ НТХ	SIZE 1 NTR
6омм нтх	SIZE 1 HTX
72ММ НТХ	SIZE 2 NTR AND SIZE 2 HTX
домм нтх	SIZE 3 NTR

#### Pad Eyes



Wide range of pad eyes available, refer to page 306 for more information

#### **HTX Blocks**

### Single Stand-Up Block



			BASE DETAILS								
PART NO	SHEAVE Ø	WORKING L	LOAD LIMIT	WEI G		OVERALL DIAMETER		FIXINGS DIAMETER		FIXINGS TYPE	
	IVIIVI				UL.			141141			
29195011	50	800	1762	280	10	58	2 <sup>5</sup> / <sub>16</sub>	40	1 37/64	4 X M6 (1/4")	
29196011	60	1100	2422	350	12.4	58	2 <sup>5</sup> / <sub>16</sub>	40	1 37/64	4 X M6 (1/4")	
29197211	72	2000	4405	645	22.8	73	2 <sup>7</sup> /8	50	1 31/32	4 X M8 (5/16")	
29199011	90	3500	7709	1115	39.3	76	3"	55	2 11/64	4 X M8 (5/16")	

### HTX Footblock



Use M8 (5/16") fixings for the 60/72mm sheaves and M10 (3/8") for the 90mm sheaves (not included)

PART NO	SHEAVE Ø	WOR LOAD		WEIGHT		
		KG	LB	G	oz	
29195061	50	800	1762	145	5.1	
29196061	60	1100	2422	158	5.5	
29197261	72	2000	4405	283	9.9	
29199061	90	3500	7709	672	23.5	

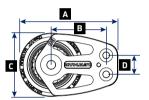
### HTX Footblock With Jammer



\*Jammer intended to hold hand loads only Use M8 (5/16") fixings for the 60/72mm sheaves and M10 (3/8") for the 90mm sheaves (not included)

PART NO	SHEAVE Ø	WOR LOAD	KING LIMIT	WEIGHT		
		KG	LB	G	oz	
29195064	50	800	1762	107	3.7	
29196064	60	1100	2422	170	6.0	
29197264	72	2000	4405	320	11.2	

### HTX Footblock Footprint





STANDARD AND JAMMER OPTIONS CAN BE DOUBLE STACKED
THE UPPER SHEAVE SHOULD NOT BE LOADED BEYOND 60% OF
WORKING LOAD LIMIT (WLL)

SHEAVE Ø	Α	В	С	D
	ММ	ММ	MM	ММ
50	78.7	44	50	16
60	93.2	52	60	18
72	111.2	62	72	22
90	140.5	78	90	24

### Suitable Block Upstand



Rubber boot upstand kit:

29195065 fits 50mm HTX 29196065 fits 60mm HTX 29197265 fits 72mm HTX

For more info refer to page 301

### Fit Snap Shackle



	FIT SNAP SHACKLE
50ММ НТХ	29926040
6омм нтх	29927240
72MM HTX	29929040

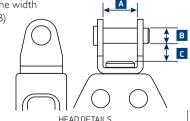
For more info refer to page 302

### Halyard Block



The toggle head is designed to fit on the studs commonly found at mast bases.

Check the diameter of the stud against the width of the block jaws (A) and pin diameter (B)

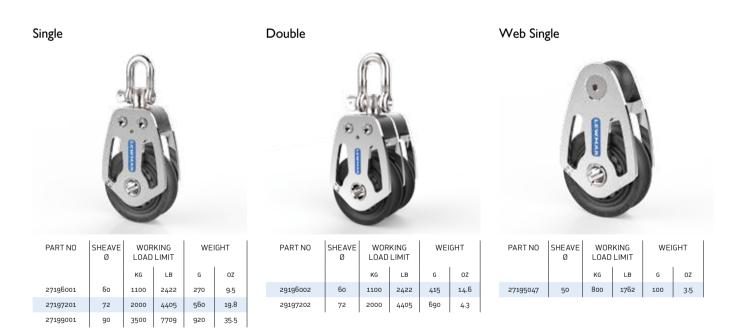


						HEAD DETAILS					
PART NO	SHEAVE Ø	WORKIN LIN		WEI	GHT	WIE		PI		SPACE	TO PIN
	ММ	KG	LB	G	OZ	ММ	IN	ММ	IN	ММ	IN
29195021	50	800	1762	160	5.6	15	37/64	6	7/32	8	5/16
29196021	60	1100	2422	227	7.9	18	45/64	8	5/16	10	<sup>37</sup> / <sub>94</sub>
29197221	72	2000	4405	410	14.4	23	67/74	10	37/94	9.5	3/8

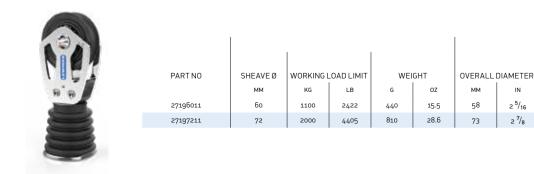


# HTX Stainless Steel Blocks

Following the popularity of the HTX blocks, Lewmar have responded to market trends by developing a high-polished, stainless steel edition of the range. Providing a stylish alternative to ubiquitous Lewmar hardware, HTX Stainless Steel Blocks feature all the performance characteristics of the standard range while carrying additional glamour.



### Single Stand-Up Block



FIXINGS TYPE

4 X M6 (1/4")

4 X M8 (5/16")

BASE DETAILS

FIXINGS DIAMETER

1 <sup>37</sup>/<sub>64</sub>

1 31/32

#### HTX Stainless Steel Blocks

### Single & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEIGHT		
		KG	LB	G	oz	
27196004	60	1100	2422	285	10.1	
27197204	72	2000	4405	605	21.5	

#### Fiddle



PART NO	SHEAVE Ø	WOR LOAD KG		WEI	GHT   oz
		ING.			02
27196031	60	1100	2422	325	11.5

#### Fiddle & Cam



PART NO	SHEAVE Ø		KING LIMIT *	WEIGHT		
		KG	LB	G	oz	
27196038	60	1100	2422	500	17.6	

<sup>\*</sup> Block WWL, cleat WLL shown on p289

#### Fiddle, Becket & Cam



PART NO	SHEAVE Ø		KING LIMIT *	WEIGHT		
		KG	LB	G	oz	
27196039	60	1100	2422	575	20.3	

Halyard Block



The toggle head is designed to fit on the studs commonly found at mast bases.

Check the diameter of the stud against the width of the block jaws (A) and pin diameter (B)

						HEAD DETAILS					
PART NO	SHEAVE Ø	WORKIN LIN	IG LOAD VIT	WEIGHT		A WIDTH		B PIN		SPACE TO PIN	
	ММ	KG	LB	G	oz	ММ	IN	ММ	IN	ММ	IN
27196021	60	1100	2422	285	10.1	18	<sup>45</sup> / <sub>64</sub>	8	<sup>5</sup> / <sub>16</sub>	10	37/94
27197221	72	2000	4405	515	18.2	23	67/74	10	<sup>37</sup> / <sub>94</sub>	9.5	3/8

#### HTX Footblock



Use M8 (5/16") fixings for the 60/72mm sheaves.

PART NO	SHEAVE Ø	WORKING LOAD LIMIT				GHT
		KG	LB	G	oz	
27196061	60	1100	2422	200	7.1	
27197261	72	2000	4405	355	12.5	

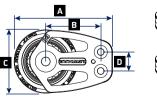
### HTX Footblock With Jammer



\*Jammer intended to hold hand loads only Use M8 (5/16") fixings for the 60/72mm sheaves

PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	oz
27197264	72	2000	4405	480	16.8

### HTX Footblock Footprint





STANDARD AND JAMMER OPTIONS CAN BE DOUBLE STACKED
THE UPPER SHEAVE SHOULD NOT BE LOADED BEYOND 60% OF
WORKING LOAD LIMIT (WLL)

SHEAVE Ø	ММ	В	С	ММ
60	93.2	52	60	18
72	111.2	62	72	22

<sup>\*</sup> Block WWL, cleat WLL shown on p289



# Racing Blocks

Lewmar Racing Blocks represent the pinnacle of Lewmar's standard block range. Manufactured from the best materials, they offer incredible strength to weight ratios.

- Lockable head pin
- Highly efficient central bearing
- Delrin thrust balls
- Ratchet fiddle blocks feature alloy ratchet sheaves and recessed ratchet lever



Single



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		-		GHT
		KG	LB	G	oz	
29901611ВК	60	800	1763	162	5.7	
29901811BK	80	1000	2204	251	8.8	

Single & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT			
		KG	LB	G	oz
29901614ВК	60	800	1763	170	6.0
29901814BK	80	1000	2204	278	9.8

Single Stand Up

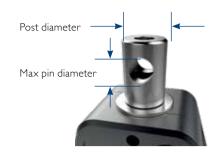


PART NO	SHEAVE Ø	WORKING LOAD LIMIT				GHT
		KG	LB	G	oz	
29901600ВК	60	800	1763	283	10.0	
29941800BK	80	2400	5280	518	18.0	

For fixing details refer to the website

### Racing Blocks

#### Shackle Post Dimensions



	POST Ø TO FIT N		TO FIT M	MAX PIN Ø	
	ММ	IN	ММ	IN	
60MM FIDDLES	10.0	3/8	5	<sup>3</sup> / <sub>16</sub>	
60MM SINGLES	11.0	3/8	6	1/4	
60MM DOUBLES	13.8	1/2	8	<sup>5</sup> / <sub>16</sub>	
80MM SINGLES/ FIDDLES	12.5	1/2	6	1/4	
80MM DOUBLE/ TRIPLE	14	9/16	8	<sup>5</sup> / <sub>16</sub>	
175MM	31.8	1 1/4	16	5/8	
200MM	34.7	1 3/8	16	5/8	
225MM	38	1 1/2	20	3/4	
250MM	46	1 3/4	24.5	1	

MAX LINE SIZE

10

22

24

3/8

1/<sub>2</sub>
7/<sub>8</sub>

7/8

<sup>15</sup>/<sub>16</sub>

### Single Ratchet



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT	
		KG	LB	G	oz	
29901821BK	80	800	1764	291	10.3	l

### Single Ratchet & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	SHT	
		KG	LB	G	oz	
29901825ВК	80	800	1764	318	11.2	ĺ

Single Ratchet, Becket & Cam



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	oz
29901829ВК	80	800	1764	503	17.7

<sup>\*</sup> Block WWL, cleat WLL shown on p342

Double



PART NO	SHEAVE Ø	WORKING LOAD LIMIT				GHT
		KG	LB	G	oz	
29901612ВК	60	1440	3175	291	10.3	
29901812BK	80	1800	3968	487	17.2	

. .. . . .

6о/ 8омм

175MM

200MM

225MM

250MM

Line Size



P	ART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEIGHT	
			KG	LB	G	oz
29	901615BK	60	1440	3175	299	10.5
29	901815BK	80	1800	3968	514	18.1

Triple



PART NO	SHEAVE Ø	WOR LOAD		WEIGHT	
		KG	LB	G	oz
29901813BK	80	2200	4849	724	25.5

### Triple Ratchet & Cam



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	IGHT	
		KG	LB	G	oz	
29901828вк	80	2200	4849	949	33.5	

<sup>\*</sup> Block WWL, cleat WLL shown on p342

### Racing Blocks

### Triple & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEIGHT	
		KG	LB	G	oz
29901816BK	80	2200	4849	751	26.5

### Triple Ratchet, Becket & Cam



		9				
PART NO	SHEAVE Ø	WOR LOAD		WEI	GHT	
		KG	LB	G	oz	l
29901830ВК	80	2200	4849	976	34-4	

<sup>\*</sup> Block WWL, cleat WLL shown on p342

Fiddle



PART NO	SHEAVE Ø		KING LIMIT	WEI	GHT
		KG	LB	G	oz
29901631ВК	60	400	882	174	6.1
29901831ВК	80	60 400 88		356	12.6

### Fiddle Ratchet & Cam



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEIGHT	
		KG	LB	G	oz
29901822BK	80	1000	2204	567	20.0

<sup>\*</sup> Block WWL, cleat WLL shown on p342

Fiddle Becket



PART NO	SHEAVE Ø	WOR LOAD		WEI	GHT
		KG	LB	G	oz
29901634ВК	60	400	882	190	6.7
29901834ВК	80	1000	2204	382	13.5

Fiddle, Becket & Cam



PART NO	SHEAVE Ø	WOR LOAD	KING LIMIT	WEI	GHT
		KG	LB	G	oz
29901639ВК	60	400	882	353	12
29901839ВК	80	1000	2204	567	20

<sup>\*</sup> Block WWL, cleat WLL shown on p342

### Fiddle Ratchet, Becket & Cam



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	GHT
		KG	LB	G	oz
29901624ВК	60	400	882	362	13.0
29901824BK	80	1000	2204	356	21.0

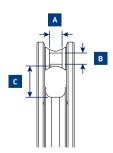
<sup>\*</sup> Block WWL, cleat WLL shown on p342

### Halyard Block



PART NO	SHEAVE Ø	WOR LOAD		WEI	GHT	
		KG	LB	G	oz	
29942601BK	60	1400	3080	146	5.2	
29942801BK	80	2500	5500	274	9.7	

### Halyard Block Head Details



	A	A	E	3		C
	мм	IN	ММ	IN	мм	IN
60MM HALYARD	12.8	1/2	6.0	1/4	26.5	1 <sup>1</sup> / <sub>16</sub>
80MM HALYARD	14.4	9/16	8.0	5/16	29.5	1 1/4

### **Racing Blocks**

### Delrin Balls (Bag of 100)



PART NO	WHERE USED	DIAM	ETER
		MM	IN
29170022	60 +105 +130 BLOCKS/ FOOTBLOCKS	4.6	3/16
29171022	80 +155 +175 BLOCKS/ FOOTBLOCKS	6.4	1/4

### Footblock Single



FIXINGS SUPPLIED (MAX 35MM DECK THICKNESS): SIZE 60 : 3XM6, SIZE 80 : 3XM8 SIZE175 : 2XM12/3XM16, SIZE 250 : 4XM16/2XM20

PART NO	SHEAVE Ø	w	LL	WEIGHT		
		KG	LB	G	oz	
29906601ВК	60	400	882	160	5.6	
29906801ВК	80	1000	2204	279	9.8	
29906171BK	175	10000	22043	2634	92.9	

### Footblock Single With Jammer



FIXINGS SUPPLIED (MAX 35MM DECK THICKNESS): SIZE 60 : 3XM6, SIZE 80 : 3XM6 \*JAMMER WORKING LOAD LIMIT: 300 KG / 661LB

PART NO	SHEAVE Ø	WLL*		WEIGHT	
		KG	LB	G	oz
29906604ВК	60 LEFT HAND	400	882	181	6.3
29906606вк	60 RIGHT HAND	400	882	181	6.3
29906814BK	80 LEFT HAND	1000	2204	299	11.0
29906816вк	80 RIGHT HAND	1000	2204	299	11.0

### Footblock Single With Ratchet



FIXINGS SUPPLIED (MAX 35MM DECK THICKNESS): SIZE 60: 2XM6/1XM10, SIZE 80: 2XM8/1XM12

PART NO	SHEAVE Ø /	W	LL	WEI	GHT
	RATCH. DIR.	KG	LB	G	OZ 5.6 5.6 12
29906621BK	60 CCW (PORT)	400	882	160	5.6
29906622ВК	60 CW (STBD)	400	882	160	5.6
29906821BK	80 CCW (PORT)	1000	2204	341	12
29906822ВК	80 CW (STBD)	1000	2204	341	12

### Footblock Double



FIXINGS SUPPLIED (MAX 35MM DECK THICKNESS):
SIZE 60: 3XM6, SIZE 80: 3XM8
SIZE 175: 2XM12/3XM16, SIZE 250: 4XM16/2XM20
\*TOP SHEAVE SHOULD NOT BE LOADED ABOVE 60% OF WLL

PART NO	SHEAVE Ø	WLL*		WEIGHT	
		KG	LB	G	OZ
29906602ВК	60	400	882	258	9.1
29906802ВК	80	1000	2204	415	15.0
29906172ВК	175	10000	22043	11271	397.6

### Footblock Double With Jammer

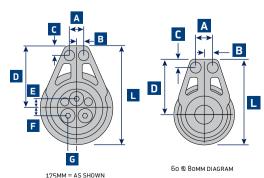


FIXINGS SUPPLIED (MAX 35MM DECK THICKNESS):
SIZE 60: 3XM6, SIZE 80: 3XM8
SIZE 175: 2XM12/3XM16, SIZE 250: 4XM16/2XM20
\*JAMMER DESIGNED TO HOLD HAND LOADS ONLY. TOP SHEAVE
SHOULD NOT BE LOADED ABOVE 60% OF WILL

PART NO	SHEAVE Ø	WLL*		WEIGHT	
		KG	LB	G	oz
29906605ВК	60 LEFT HAND	400	882	258	9.1
29906607ВК	60 RIGHT HAND	1000	2204	415	15.0
29906815ВК	80 LEFT HAND	10000	22043	11271	397.6
29906817ВК	80 RIGHT HAND	19000	41881	11271	397.6

### Racing Footblock Footprint Details

			ı		ı		ı		ı		ı		ı		ı	
SIZE		L		A	E	3	(		[	כ	I	Ξ	I	=	(	5
	мм	IN	мм	IN	мм	IN	мм	IN	мм	IN	мм	IN	мм	IN	мм	IN
бомм	85	3 1/3	20	4/5	10.0	2/5	16	5/8	55	2 1/6	-	-	-	-	-	-
8омм	111	4 3/8	26	1	13.0	1/2	20	4/5	71	2 4/5	-	-	-	-	-	-
175MM	243	9 4/7	33	1 2/7	16.5	2/3	23	1	152	6	25	1	12.5	1/2	26	1
250MM	348	13 5/7	44	1 3/4	22	6/7	29	1 1/7	210	8 1/4	28	1 1/9	28	1 1/9	28	1 1/9



175MM = AS SHOWN 250MM = 4 CENTRAL FIXINGS



# High Load Racing Blocks

Lewmar High Load Racing Blocks are designed to compete at the highest level. Using cutting-edge materials, the blocks minimise friction to an infinitessimal degree without compromising on load strength.

- A result of extensive testing and innovation
- High-strength alloy construction

Delrin thrust balls and torlon rollers for supreme performance

Single



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	IGHT	
		KG LB		G	oz	
29941611BK	60	1200	2640	281	9.9	
29941801BK	80	2400	5280	337	12	
29941101BK	105	3750	8250	605	21.4	
29941131BK	130	5000	11000	952	33.6	
29941151BK	155	7500	16500	1810	64	

Single Stand Up



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEI	WEIGHT	
		KG	LB	G	oz	
29941600ВК	60	1200	2640	281	9.9	
29941800ВК	80	2400	5280	518	18	
29941100BK	105	3750	8250	727	25.7	
29941130BK	130	5000	11000	1404	49.6	
29941150BK	155	7500	16500	2396	84.7	

Single & Becket



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEIGHT	
		KG	LB	G	oz
29941614BK	60	1200	2640	174	6.1
29941804ВК	80	2400	5280	358	13
29941104BK	105	3750	8250	640	22.6
29941134BK	130	5000	11000	986	34.8
29941154BK	155	7500	16500	1737	61.4

Shackle Post Dimensions



BLOCKS	POST DI	AMETER	TO FIT MAX PIN Ø		
	ММ	IN	ММ	IN	
60MM SINGLE	11	3/8	6	1/4	
6омм отнек	13.8	1/2	8	<sup>5</sup> / <sub>16</sub>	
80MM SINGLE	15	<sup>9</sup> / <sub>16</sub>	8	5/16	
80MM OTHER	19.8	3/4	10	3/8	
105MM SINGLE	19.8	3/4	10	3/8	
105MM OTHER	21.8	7/8	12	1/2	
130MM BLOCKS	21.8	7/8	12	1/2	
155MM BLOCKS	25.8	1	14	<sup>9</sup> / <sub>16</sub>	

Line Size

N. S.	MAX LII	NE SIZE IN
6омм вьоскѕ	12	1/2
80MM BLOCKS	14	9/16
80MM FIDDLES	12	1/2
105MM BLOCKS	14	9/16
130MM BLOCKS	16	5/8
155MM BLOCKS	18	11/16

### High Load Racing Blocks

### Single with Snap Shackle



PART NO	SHEAVE Ø		KING LIMIT	WEI	WEIGHT	
		KG	LB	G	oz	
29941808вк	80	2000	4400	496	18	

### Double



PART NO	SHEAVE Ø	WOR LOAD	KING LIMIT	WEIGHT		
		KG	LB	G	0Z	
29941612ВК	60	2000	4400	320	11.3	
29941802ВК	80	3400	7480	655	23	

### Double & Becket



PART NO	SHEAVE Ø	WOR LOAD	KING LIMIT	WEI	GHT
		KG	LB	G	oz
29941615BK	60	2000	4400	343	12.1
29941805ВК	80	3400	7480	685	24

Triple



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEIGHT		
		KG	LB	G	OZ	
29941613ВК	60	2500	5500	428	15.1	

Fiddle



PART NO	SHEAVE Ø	WOR LOAD	KING LIMIT	WEIGHT		
		KG	LB	G	oz	
29941831ВК	80	2400	5280	441	16	

Fiddle & Becket



PART NO	SHEAVE Ø	WOR LOAD	KING LIMIT	WEIGHT		
		KG	LB	G	oz	
29941834ВК	80	2400	5280	471	17	

Web Block



PART NO	SHEAVE Ø	WOR LOAD	KING LIMIT	WEI	GHT
		KG	LB	G	oz
29901647ВК	60	1400	3086	120	4.2
29901807ВК	80	2400	5280	242	8.6
29901107BK	105	3750	8250	417	14.7

Delrin Balls (Bag of 100)



PART NO	29175022 60HL FOOTBLOCKS		
		мм	IN
29175022	6ohl Footblocks	3.2	1/8
29170022	60LL+80HL+105 +130 BLOCKS/FOOTBLOCKS	4.6	<sup>3</sup> / <sub>16</sub>
29171022	80LL+105+155 +175 BLOCKS/FOOTBLOCKS	6.4	1/4

Torlon Rollers for Racing Blocks

PART NO	BAG QTY	BLOCK SIZE		
		мм		
29900010	22	60		
29900011	24	80		
29900012	35	105		
29900013	47	130		
29900014	50	155		
29900015	59	175		
29900016	68	200		
29900017	78	225		

### High Load Racing Blocks

### Single Footblock



WORKING

LOAD LIMIT KG

1400

2400

3750

5500

7500

LB 3080

5280

8250

12100

16500

FIXINGS NOT SUPPLIED: SIZE 60MM 2XM6 / 1XM10 SIZE 80MM 2XM8 / 1XM12

SHEAVE

60

105

130

155

PART NO

29946611BK

29946801ВК

29946101BK

29946131ВК

29946151BK

SIZE 105MM 2XM10 / 1XM12 SIZE 130MM 4XM12

# SIZE 155MM 2XM12 / 2XM16

132

490

732

1476

WEIGHT

oz

4.7

9.5

17.3

25.9

52.2

#### Double Footblock



FIXINGS NOT SUPPLIED: SIZE 60MM 2XM6 / 1XM10 SIZE 80MM 2XM8 / 1XM12

SIZE 105MM 2XM10 / 1XM12 SIZE 130MM 4XM12 SIZE 155MM 2XM12 / 2XM16

PART NO	SHEAVE Ø		KING LIMIT*	WEIGHT		
		KG	LB	G	oz	
29946612ВК	60	1400	3080	252	8.9	
29946802ВК	80	2400	5280	500	17.7	
29946102ВК	105	3750	8250	873	30.8	
29946132ВК	130	5500	12100	1301	46.0	
29946152BK	155	7500	16500	2675	94.5	

\*TOP SHEAVE SHOULD NOT BE LOADED ABOVE 60% OF WLL

#### **Shackle Posts**

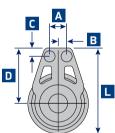
Designed to fit Racing halyard and runner blocks.

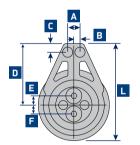
Can be used with shackle in-line or at 90° to sheave.



PART NO.	SUITS	POST DIA.		PIN DIA.		BREAKING LOAD	
		мм	IN	мм	IN	KG	LB
29942606	бомм	17.5	11/16	8	<sup>5</sup> /16	2800	6170
29942806	8омм	23.75	7/8	10	3/8	5000	11000
29942106	105MM	24	1	10	3/8	6400	14100
29942136	130MM	28	1 1/8	12	1/2	10000	22050
29942156	155MM	36	1 3/8	16	5/8	15000	33050

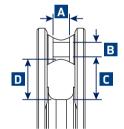
### Racing Footblock Footprint Details





SIZE	L	_	A	A	E	3	(		[		E	Ē	F	=
	ММ	IN	ММ	IN	мм	IN	мм	IN	ММ	IN	ММ	IN	мм	IN
бомм	85	3 1/3	20	4/5	10.0	2/5	16	5/8	55	2 1/6				
8омм	111	4 3/8	26	1	13.0	1/2	20	4/5	71	2 1/5				
105MM	148	5 <sup>5</sup> /6	35	1 3/8	17.5	2/3	27	1	95	3 3/4	14	1/2	13.6	1/2
130MM	181	7 1/8	40	1 4/7	20.0	4/5	33	1 2/7	111	4 1/3	18	5/7	18	5/7
155MM	216	8 ½	54	2 1/8	27.0	1	50	2	138	5 3/7	20	4/5	20	4/5

#### Halyard and Runner Block **Head Details**



BLOCK	Α		В			C	D		
	мм	IN	ММ	IN	мм	IN	мм	IN	
60MM HL HALYARD	12.8	1/2	8.5	21/64	25.3	1	24.0	<sup>15</sup> / <sub>16</sub>	
80MM HL HALYARD	14.4	9/16	11.0	7⁄16	28.0	1 3/4	27.4	1 3/32	
80MM RUNNER	11	7∕ <sub>16</sub>	11	7∕ <sub>16</sub>	28.6	1 %4	27.8	1 3/32	
105MM RUNNER	13	33/64	13	33/64	34.0	1 11/32	32.0	1 1/4	
130MM RUNNER	16	5/8	16	5/8	34.0	1 11/32	32.0	1 1/4	

### Fixed Halyard Block



PART NO	SHEAVE Ø	W	LL	WEI	GHT
		KG	LB	G	OZ
29902800ВК	80	2500	5500	300	10.6
29902100BK	105	4000	8817	629	22.2

#### Halyard Block



PART NO	SHEAVE Ø	WOR LOAD	KING LIMIT	WEI	GHT
		KG	LB	G	oz
29942601BK	60	1400	3080	252	8.9
29942801BK	80	2400	5280	500	17.7
29902101BK	105	3200	7054	457	16.1
29902131BK	130	5000	11021	839	29.6
29902151BK	155	7500	16500	1545	54.5

#### High Load Racing Runner Blocks

- Sheaves run on an impregnated composite bearing with dual Also available in Titanium contact your dealer. side thrust bearings for free-running at initial load.
- Optimised cheek design with non-snag bails.
- Breaking load of runner blocks is 2.5 x WLL

#### Runner Block



### Runner Block & Becket



PART NO	SHEAVEØ	WOR LOAD		WEI	GHT
		KG	LB	G	OZ
29902808вк	80	2000	4409	256	9
29902108вк	105	2560	5643	448	15.8
29902138вк	130	4000	8817	776	27.4
29902158вк	155	6000	13226	1418	50
29902178вк	175	8400	18516	2074	73.2
29902208вк	200	10000	22043	4003	141

PART NO	SHEAVE Ø	WOR LOAD	KING LIMIT	WEIGHT				
		KG	LB	G	oz			
29902809ВК	80	2000	4409	265	9.4			
29902109BK	105	2560	5643	474	16.7			
29902139BK	130	4000	8817	842	29.7			
29902159BK	155	6000	13226	1569	55.3			
29902179BK	175	8400	18516	2544	89.7			
29902209BK	200	10000	22043	4620	163			

### **Snatch Blocks**

Ideal for general spinnaker use, the Snatch Block features the Lewmar snap shackle and soft, synthetic rubber cheeks to handle rough treatment. Where a snatch block is attached in a situation which does not permit full movement, such as through some toe rails, a shackle must be used to ensure full articulation.

Designed for line handling on sail boats only.



19820600 SIZE 2 SNATCH BLOCK



19830500 SIZE 3 SNATCH BLOCK



19810600 SIZE 1 SNATCH BLOCK

PART NO	SIZE	BEARING	SHEAVE MATERIAL	WORKING L	OAD LIMIT	BREAKII KG	NG LOAD	SHEA MM	AVE Ø	SHEAVE MM	E WIDTH	LINE MM	SIZE IN	WEI G	GHT oz
19810600	1	STAINLESS STEEL	DELRIN	1135	2500	2270	5000	66	2 1/8	20	3/4	14	9/16	480	17.0
19820600	2	STAINLESS STEEL	DELRIN	1590	3500	3180	7000	80	3 1/8	20	3/4	16	5/8	880	31.0
19830500	3	NEEDLE ROLLER	ALUMINIUM	2155	4750	4310	9500	80	3 1/8	20	3/4	16	5/8	1040	36.5

### **Block Upstands**

Lewmar block upstands are designed to hold a block to the deck in a vertical direction for sail control in leisure marine application only.

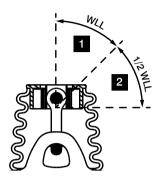
Their performance depends heavily on the specific application and suitability of installation.

Care must be taken during installation that the block upstand is suitably aligned to the expected load.

The load direction should be as close to perpendicular with the base as possible (as shown on the Alignment illustration). This will maximise the working load of the pad eye.

In addition, the load should be as close to parallel with the bail as possible. The Working Load Limit (WLL) Zones illustration shows the recommended WLL relatives to the applied force.

# Working Load Limit (WLL) Zones



### Alignment



### Spring Block Upstand



PART NO	TO SUIT BLOCK	WORKING LOAD LIMIT ZONE 1		WORKING L ZON	LOAD LIMIT NE 2	WEI	GHT	BASE DIA		
		KG	LB	KG	LB	KG	LB	ММ	IN	
29904046	30 ® 40MM CONTROL	400	990	200	495	24	0.8	1 3/16	1/8	
29904050	60MM RATCHET TRIPLE ® 60MM SYNCHRO	400	990	200	495	24	0.8	1 3/4	3/16	

### Rubber-Boot Block Upstand with Pad Eye



PART NO	TO SUIT BLOCK	WORKING LOAD LIMIT ZONE 1		WORKING L ZON		WEI	GHT	BASE DIA		
		KG	LB	KG	LB	G	OZ	мм	IN	
29195065	50MM HTX 60MM SYNCHRO 60MM RATCHET SINGLE / FIDDLE	800	1760	400	990	105	3.7	58	2 1/4	
29196065	60MM HTX 72MM SYNCHRO 60MM RACING LOW LOAD SINGLE	1100	2420	550	1211	105	3.7	58	2 1/4	
29197265	72MM HTX 90MM SYNCHRO	2000	4400	1000	2200	210	7.4	73	2 7/8	

### **Pivoting Lead Blocks**

Lead blocks are a low profile solution for leading halyards or other rig sail controls back to cleats or jammers. Maintains alignment with a variable line entry-angle. The line passes through the centre of the pivot support, remaining as close to the deck as possible.

- Alloy sheave / Alloy cheeks
- Black carbon Acetal ball bearings
- Torlon® rachet pawl





Pivoting low lead







Pivoting low lead ratchet with cleat

PART NO	DESCRIPTION	SHEAVE Ø	MAX ROPE Ø			WORKING LOAD LIMIT		WEIGHT		FASTENER Ø		FASTENING CEN- TRE WIDTH		NG CEN- NGTH
			ММ	IN	KG	LB	G	OZ	мм	IN	мм	IN	ММ	IN
29196012	PIVOTING LOW LEAD HIGH LOAD	60	14	9/16	1500	3310	341	12.0	6.0	<sup>3</sup> / <sub>16</sub>	45	13/4	112.5	4 7/16
29196014	PIVOTING LOW LEAD RATCHET	60	10	3/8	250	550	147	5.2	5.0	3/16	35	13/8	105.5	4 5/32
29196013	PIVOTING LOW LEAD RATCHET WITH CLEAT	60	10	3/8	250	550	285	10.1	5.0	<sup>3</sup> / <sub>16</sub>	35	13/8	105.5	4 5/32

<sup>\*</sup> Block WWL, cleat WLL shown on p342

### **Lewmar Synchro Snap Shackles**



PART NO	PART NO FIT BLOCKS				EAKING LOAD PIN DIA		N DIA A		X.	В		С	
		KG	LB	KG	LB	ММ	IN	мм	IN	мм	IN	мм	IN
29925040	50 SYNCHRO / 30 ® 40 CON- TROL SINGLE / DOUBLE	450	990	900	1980	4	1/8	9.0	3/8	4.5	3/16	12	1/2
29926040	60 SYNCHRO / 50 HTX / 30 CONTROL TRIPLE	800	1760	1600	3520	5	3/16	12.0	1/2	6.0	1/4	14	9/16
29927240	72 SYNCHRO / 60 HTX / 40 CONTROL TRIPLE	1100	2420	2200	4840	6	1/4	13.0	1/2	6.5	1/4	18	11/16
29929040	90 SYNCHRO / 72 HTX	2000	4400	4000	8800	9.5	3/8	17.5	11/16	7.5	5/16	22	7/8



### **Custom Blocks**

With a wide range of experience across both the race boat and superyacht sectors, Lewmar can offer custom blocks for any situation. Over 70 years of practical knowledge, combined with the latest FEA techniques enables us to optimise each block for its intended application.

Structural loads found in the head of the block are routed through the side cheeks while non-load bearing material is sculpted out. Our team designs and specifies each block to the project's bespoke requirements with typical finishes including highly polished stainless steel, blasted aluminium, titanium or wood.

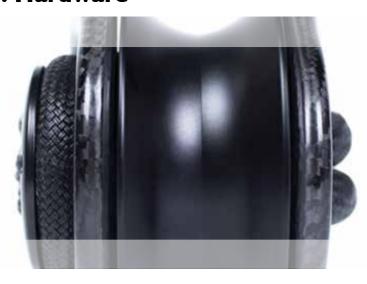
Lewmar hardware was used aboard Gypsy Moth IV's circumnavigation and has been used to win numerous America's Cups. In recent years, much of our custom block development has been focused on the stunning J-Class fleet. These beautiful classics demand the optimum combination of performance, reliability and style, and are the ultimate proving ground for our current range of custom blocks.

With all the blocks assembled and tested in our Havant, UK facility, our engineering team is able to quickly implement any lessons learnt from testing.









# Soft Loop Blocks

Reaching new standards of innovation, Lewmar-Equiplite® Soft Loop Blocks are designed to be mobile, lightweight and robust with a highly flexible range of uses.

The Soft Loop Blocks feature a continuous rope loop, removable for easy and quick attachment. Ultra-lightweight alloy and carbon fibre construction ensures that the strength-to-weight ratio is unequalled in modern hardware. Combined with our specially designed range of lightweight cars, the Soft Loop Blocks are a formidable component in race systems.

The Soft Loop Blocks are a true performance product, designed for high-level sail handling.

- High-strength alloy and carbon construction
- Detachable rope loop provides incredible flexibility
- Velcro retention strap and shaped side plates prevent accidental release
- Low-friction carbon bearing provides high working loads and performance under pressure
- Disassembles for easy maintenance
- Up to 75% weight saving over traditional systems

#### **Core Block**

The central platform of the Soft Loop Block range, the Core Block is a highly versatile component in a wide variety of applications.

- Central carbon bearing provides very little friction and unparalleled load efficiency
- Continuous fibre loop provides strength and flexibility
- Advanced materials reduce weight

PART NO	SHEAVE Ømm	WOR LOAD		WEI	GHT
		KG	LB	G	oz
29940487	48	4000	8818	160	5.6
29940707	70	8500	18740	460	16.2
29941207	120	15000	33070	1695	59.8
29395000	135	20000	44100	1950	68.8





#### In-Hauler

Developed specifically for barber hauler applications, the In-Hauler packages the principles of the Core Block into a refined, purpose-driven component.

- Ultimately simple design reduces weight and enhances utility
- Designed for use with barber haulers/tweakers
- Ease of use enables quick changes of sheeting configurations

PA	RT NO	SHEAVE Ømm	WOR LOAD		WEI	GHT
			KG	LB	G	oz
299	41408IF	16	2000	4410	42	1.5
299	42010IF	30	8000	17640	280	9.9
299	43012IF	35	12000	26460	350	12.3



#### **Core Block Cars**

To maximise the weight-saving gains of the Core Blocks, Lewmar have designed specialised genoa and mainsheet cars to work in harmony with the loop blocks.

- Machined from extrusion for optimum strength-to-weight ratio
- Control ends accept dead end or control blocks
- Double ball race provides innovative low friction design
- Available in various configurations for genoa and mainsheet contact your Lewmar representative for more information
- Designed to be mounted on NTR track

PART NO	SIZE	WOR LOAD		LEN	GTH	WIE	OTH	WEI	GHT
		KG	LB	мм	IN	ММ	IN	G	OZ
29331153BK	1	2500	5510	150	5.9	66	2.6	288	10.2
29332259BK	2	8000	17640	256	10.1	80	3.1	1662	58.6



# Pad Eyes

Lewmar pad-eyes are designed for leisure marine use and for fixing blocks or similar equipment to the deck.

Their performance depends heavily on the specific application and suitability of installation.

Care must be taken during installation that the pad eye is suitably aligned to the expected load.

#### Alignment



The load direction should be as close to perpendicular with the base as possible. This will maximise the working load of the pad eye.

In addition, the load should be as close to parallel with the bail as possible.

For more information on the deflection effect on force applied refer to the product manuals.



29904060



29192105



29904054



29904040



29904041

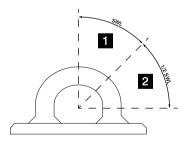


29165066

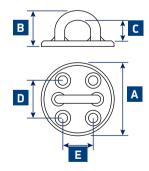


29197266

Working Load Limit (WLL) Zones



Dimension diagram



### Pad Eye Specifications

PART NO	DESCRIPTION	W 10Z		W ZON	LL NE 2	WEI	GHT	BAR	DIA	1	A		<b>B</b>		C	[	0		≣	FIXI NOT SU	
		KG	LB	KG	LB	G	oz	мм	IN	ММ	IN	ММ	IN	ММ	IN	ММ	IN	ММ	IN	ММ	IN
29904060	60/80MM PAD EYE	3200	7055	1600	3527	154	5.4	10.0	3/8	66	2 <sup>19</sup> / <sub>32</sub>	33	1 19/64	18	23/32	34	111/32	28	1 3/32	4хм8	4X <sup>5</sup> / <sub>16</sub>
29192105	105MM PAD EYE	5000	11023	2500	5512	435	15.3	12.7	1/2	98	3 <sup>27</sup> / <sub>32</sub>	48	157/64	28	13/32	50	2 <sup>31</sup> / <sub>32</sub>	42	1 21/32	4XM12	4X 7⁄16
29904054	130MM PAD EYE	7500	16535	3750	8267	787	27.8	15.8	5/8	115	417/32	58	2 5/16	34	15/16	60	211/32	48	1 1/8	4XM12	4X 7⁄16
29165066	SMALL CAST PAD EYE	2500	5511	1250	2756	104	3.7	8.0	<sup>5</sup> / <sub>16</sub>	58	2 <sup>9</sup> / <sub>32</sub>	27	1 1/16	14	9/16	40	1 37/64	40	1 37/64	4хм6	4x <sup>1</sup> / <sub>4</sub>
29197266	MEDIUM CAST PAD EYE	4500	9921	2250	4960	212	7.5	10.0	3/8	73	2 7/8	35	1 3/8	17	43/64	50	1 31/32	50	1 31/32	4хм8	4X <sup>5</sup> / <sub>16</sub>
29904040	DIAMOND PAD EYE	1135	2502	567	1250	45	1.6	6.0	7/32	38	1 1/2	24	<sup>15</sup> / <sub>16</sub>	14	9/16	23	<sup>15</sup> / <sub>16</sub>	46	1 <sup>13</sup> /16	4XM5	4X <sup>3</sup> / <sub>16</sub>
29904041	SQUARE PAD EYE	3180	7011	1590	3505	227	8.0	9.0	5/16	70	2 3/4	37	1 57/64	21	7/8	38	1 ½	38	1 ½	4хм8	4X <sup>5</sup> / <sub>16</sub>

# Traveller Systems



### Page 310 Ocean Size 0

- Ideal for cruising yachts up to 8.5 m (28ft)
- · Internal control sheave prevents snagging
- Proven performance

 Ocean Car can be adapted to run on curved track



#### Page 312 NTR Size 1, 2 & 3

- Popular choice for cruising and racing yachts
- Modular system suits any configuration
- Compatible with Ocean range track
- Larger sheaves results in efficient rope handling



### Page 323 HTX Size I & 2

- Ideal for cruiser/racer yachts
- Complements HTX Block Range
- Unique triple ball race for reduced friction
- Minimal parts enhance performance and reliability
- Captive balls ensure easy maintenance



### Page 330 T-Track

- Specialised genoa systems
- Recently restyled to enhance strength and performance
- Available in 25mm through to 65mm
- Choice of wide range of end stops



#### Page 331 Size 4 track and cars

- High-load control line sheaves
- Torlon balls running in fully machined ball races
- Machined weight reducing slots
- End stops fixed through deck and track



#### Page 332 Custom/Racing

- Custom hardware for yachts up to 67m (220ft)
- Ideal for high-performance racing yachts
- Features patented double ball race
- Carries high load with low friction
- Tailored to specific applications
- Choice of finishes to suit individual requirements



### Page 334 Overside Working System

- Designed to conform to CE EN 975
- Range of options available
- Based on proven technology

# Traveller Systems - Selection Guide

This selection guide is designed to be used as a quick reference only. For more detailed product information visit www.lewman.com. Calculations are based on the average modern cruising yacht. Sail area, different rigs, heavy or light displacement, multihull or monohull, are all factors which affect a yacht's specifications. Loadings should be obtained from the designer and matched to the safe working load of the hardware. Please contact your Lewman agent if you have any questions regarding the correct hardware for your boat.

#### Cars Selection Guide

APPLICATION & SHEETING POSITION	SIZE	TOWING PURCHASE M (MAXIMUM AVAIL- FT ABLE PURCHASE)	7.3 24	8.5 28	10.3 34	11.5 38	13.4 44	14.6 48	16.4 54	18.2 60	21.3 70	
GENOA	0	2:1										
END BOOM MAINSHEET	0	2:1										
MID BOOM OR MULTIHULL	0	2:1										
GENOA	1	4:1 OR 2:1 TO WINCH										
END BOOM MAINSHEET	1	4:1										
MID BOOM OR MULTIHULL	1	4:1										
GENOA	2	4:1 OR 2:1 TO WINCH										
END BOOM MAINSHEET	2	5:1										
MID BOOM OR MULTIHULL	2	5:1										
GENOA	3	5:1 OR 2:1 TO WINCH										
END BOOM MAINSHEET	3	5:1 OR 2:1 TO WINCH										
MID BOOM OR MULTIHULL	3	5:1 OR 2:1 TO WINCH										

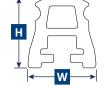


# Ocean/NTR Tracks

#### **BeamTrack**

Beam track is used when spanning cockpits and across companion way hatches. Three fixing bolts should always be used either side of the span and washers fitted under the head of the bolt and between track and deck. Some beam track can only use metric fasteners

Made of Aluminium 6082T6 extrusion.



### Sliding Bolt Track

Sliding bolt track has a smooth clean profile with no visible fixings and can be retro-fitted using original bolt holes – no need to worry about old track pattern holes matching up with a new track. The track is designed to permit a washer to fit on each bolt between the track and deck to ensure a secure seal.



### **Drilled Plunger Track**

Commonly used and particularly useful where through deck fixing is not possible, such as in double-skinned boats, where fixing bolts are threaded into a plate in the deck.



# Ocean/NTR Track Specifications and Fixing Details

PART NO	DESCRIPTION	TRACK SIZE	LEN	GTH		<b>H</b> GHT	V	<b>V</b> DTH	WEI (per n	GHT netre)	MAX SPAN FIXIN CENTRE I	NGS/	FIX	INGS
			М	FT	ММ	IN	ММ	IN	G	OZ	ММ	IN	METRIC	IMPERIAL
29160315ВК	BEAM TRACK	0	1.5	4'11"	24.7	0.97	24	0.44	954	33.65	400	16	нех но м6	1/4"
29162315ВК	BEAM TRACK	2	1.5	4'11"	35	1.38	35	1.38	1560	54.91	800	31 1/2	HEX	_
29162320BK			2	6'7"	33	3,	33	J .		313			HD M10	
29163315ВК			1.5	4'11"									HEX	
29163320ВК	BEAM TRACK	3	2	6'7"	55	2.16	50	1.97	3640	128.13	900	35 <sup>7</sup> /16	HD M12	-
29163330ВК			3	9'10"										
29161510BK			1	3'3"									HEX	
29161515BK	HD BEAM TRACK	1	1.5	4'11"	42	1.75	32	1.25	1770	62.4	900	35 <sup>7</sup> / <sub>16</sub>	HD M8	<sup>5</sup> / <sub>16</sub> "
29161520BK			2	6'7"										
29162515BK	HD BEAM TRACK	2	1.5	4'11"	51	2	51	2	3000	105.82	900	35 <sup>7</sup> /16	HEX	3/8"
29162520BK			2	6'7"			_		-		-		HD M10	
29162115BK			1.5	4'11"									HEX	_
29162120BK	SLIDING BOLT TRACK	2	2	6'7"	18	0.71	30	1.18	839	29.56	800	31 1/2	HD M8	5/16"
29162130ВК			3	9'10"										
29160405ВК			0.5	1'8"										
29160410ВК	DRILLED PLUNGER TRACK	0	1.0	3'3"	11.0	0.43	19	0.75	342	12.06	80	3.1	CSK HD M5	_
29160414ВК			1.4	4'7"										
29160415BK			1.5	4'11"										
29161415BK			1.526	5'								15	HEX	
29161420BK	DRILLED PLUNGER TRACK	1	2.026	6'8"	13	0.5	23	0.9	530	18.65	100	3 <sup>15</sup> / <sub>16</sub>	но м6	1/4"
29161430BK			3.026	9'11"										
29162415BK			1.532	5'								15.	HEX	E
29162420BK	DRILLED PLUNGER TRACK	2	2.032	6'3"	15	0.56	30	1.18	764	26.95	100	3 <sup>15</sup> / <sub>16</sub>	HD M8	5/16"
29162430ВК			3.032	10'										
29163615ВК			1.548	5'1"								15	HEX	
29163620ВК	DRILLED PLUNGER TRACK	3	2.048	6'9"	21	0.84	35	1.38	968	33.88	100	3 <sup>15</sup> / <sub>16</sub>	HD M10	3/8"
29163630ВК			3.048	10'1"										



# Size 0 Ocean Cars

Despite being the smallest range Lewmar produce, Size 0 Ocean hardware is strong, durable and efficient, providing excellent performance and reliability.

- For boats up to 8.5m/28ft.
- Use 50mm/60mm blocks.
- Suitable for 6mm (1/4") control line.

### Short Car with Delrin Balls, Loop & Single Sheaves



PART NO	LOAD	KING LIMIT		GTH		OTH I	WEI	ĺ
	KG	LB	MM	IN	MM	IN	G	OZ
29330105BK	200	440	73	2.87	51	2	150	6

### Car with Delrin Balls, Pivoting Loop & Single Sheaves



PART NO	WOR LOAD	KING LIMIT	LEN	GTH	WIE	)TH	WEI	GHT
	KG	LB	мм	IN	мм	IN	G	oz
29330107BK	450	990	124	4.88	51	2	250	8.5

#### Short Car with Delrin Balls & Shackle



## Car with Delrin Balls, Shackle & Single Sheaves



PART NO	WOR LOAD		LEN	GTH	WIE	тн	WEI	GHT	
	KG	LB	ММ	IN	ММ	IN	G	0Z	
29030100BK	450	990	123	4.83	51	2	210	7.39	

#### Car with Slide Rods, Shackle & Plunger



PART NO	WOR LOAD		LEN	GTH	WIE	)TH	WEI	GHT	
	KG	1		IN	ММ	IN	G	OZ	
29030600ВК	450	990	123	4.83	51	2	225	7.92	

#### Genoa Car with Slide Rods & Plunger



PART NO		KING LIMIT	LEN	GTH	WIE	тн	WEI	GHT	
	KG	LB	ММ	IN	мм	IN	G	OZ	
29040600ВК	600	1325	123	4.83	51	2	427	15.03	

#### Genoa Car with Delrin Balls & Single Sheave



PART NO	LOAD	KING LIMIT		GTH I		DTH I	WEI	ĺ	
	KG	LB	ММ	IN	MM	IN	G	OZ.	
29040100BK	600	1325	123	4.83	51	2	427	15.03	

# Size 0 Ocean End Stops

Control Line End Stop with Single Sheave



PART NO		LIMIT		GTH		OTH I ",	WEI	ı	
	KG	LB	MM	IN	MM	IN	G	OZ	
29170030BK	200	440	58	2.3	51	2	78	2.75	

### Control Line End Stop with Sheave, Becket & Cam



PART NO	WOR LOAD	KING LIMIT	LENGTH		WIDTH		WEIGHT		
	KG	LB	ММ	IN	ММ	IN	G	oz	
29170033BK	200	440	65	2.3	51	2	397	13.97	

<sup>\*</sup> Car WWL, cleat WLL shown on p340

#### Simple Track End



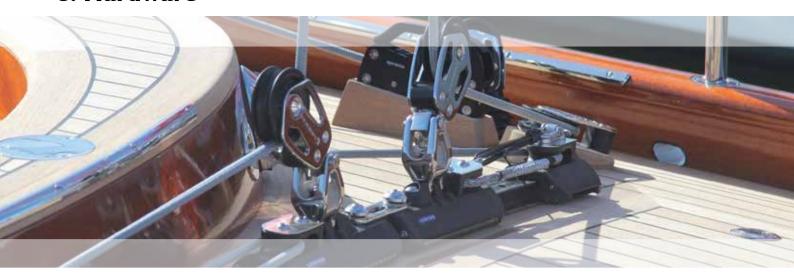
PART NO	WEI	GHT
	G	oz
29170040BK	10	.35

# Size 0 Ocean Traveller Kit - 2:1 Purchase System

Lewmar makes selecting your mainsheet system simple - with complete Mainsheet System Kits. Lewmar's Size 0 Ocean Mainsheet System is a complete kit made specifically for yachts up to 28 feet (8.5m).

PART NO	DESCRIPTION
29060152	SIZE O OCEAN TRAVELLER SYSTEM
COMPRISES:	
29030100	1 X MAINSHEET CAR
29170040	2 X SIMPLE END STOP
29160112	1 X 1.2M SLIDING BOLT TRACK
29171010	1 X SIZE 1 DEAD EYE
29904100	2 X SMALL COMPOSITE CLEAT
29904104	2 X SMALL CAM FAIRLEAD

BOAT SIZE	UP TO 8.5M	UP TO 28FT
MAX MAINSAIL AREA (END BOOM):	16M <sup>2</sup>	170FT <sup>2</sup>
MAX MAINSAIL AREA (MID BOOM):	12M <sup>2</sup>	130FT <sup>2</sup>
SAFE WORKING LOAD:	400KG	990LBS



# NTR Cars Size I - 2 and 3

The NTR range is the foundation of Lewmar's traveller systems. Found on production yachts across the world, NTR is reliable, seaworthy and designed to perform.

A modular design, NTR cars can be built from components into any configuration, with simple maintenance and servicing. This flexible platform means that every sailor's needs and preferences can be catered for without expensive alterations. Backwards compatibility with our Ocean range ensures the longevity of existing and new systems.

- Popular choice for cruising and racing yachts
- Modular system suits any configuration
- Compatible with Ocean Range track
- Larger sheaves result in efficient rope handling

NTR cars are available with two friction-reducing systems:

### Torlon Balls (TB)

- Continuous ball race
- High-strength Torlon ensures optimum performance and load management
- Innovative arrangement provides car movement at a range of load angles
- Replacement balls available

#### Slide Rods (SR)

- Simpler, fixed system
- Rods are easy to maintain and replace
- Suitable for more static applications where movement is less vital
- Durable materials





# **NTR Mainsheet Traveller Systems**



#### Size I Mainsheet System

In the Size I kit, you'll find all the components necessary to assemble a standard system.

- For boats up to IIm (36ft)
- Suitable for 8mm (5/16") control line

## Size 2 Mainsheet System

Like the size I system, the Size 2 Mainsheet system comes with everything you need for a complete standard system, including the sliding bolt track.

- For boats up to 15m (49ft)
- Suitable for 10mm (3/8") control line

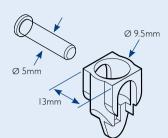
Size 1&2 Traveller Kit 4:1 Purchase System

	SIZE 1	SIZE 2
TRAVELLER SYSTEM	29461354ВК	29462354вк
COMPRISES:		
1 X MAINSHEET CAR SHACKLE WITH DOUBLE CONTROL LINE SHEAVES, CLEATS ® BECKETS	29431916вк	29432916ВК
2 X END STOP WITH DOUBLE CONTROL LINE SHEAVES	29471032BK	29472032BK
1 X SLIDING BOLT TRACK	29161115BK	29162118вк
TRACK LENGTH	1.5M	1.8м

TRACK SIZE	SIZE 1	SIZE 2
BOAT SIZE	UP TO 11M (36FT)	UP TO 14.6M (48FT)
MAX. MAINSAIL AREA:		
END BOOM:	34M <sup>2</sup> (366FT <sup>2</sup> )	46м <sup>2</sup> (495FT <sup>2</sup> )
MID BOOM:	21M <sup>2</sup> (226FT <sup>2</sup> )	38M <sup>2</sup> (410FT <sup>2</sup> )
SAFE WORKING LOAD:	900КG (1980 LB)	1000KG (2000 LB)

NTR Cars Size I - 2 and 3

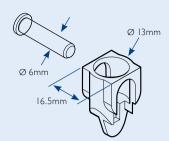
#### Size I Upstand Cup Detail



Size I upstand fits the following blocks:

- 60 synchro blocks
- 50 HTX blocks

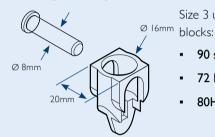
#### Size 2 Upstand Cup Detail



Size 2 upstand fits the following blocks:

- 72 synchro blocks
- 60 HTX blocks
- 60 / 60HL and 80 Racing blocks

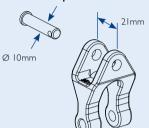
Size 3 Upstand Cup Detail



Size 3 upstand fits the following blocks:

- 90 synchro blocks
- 72 HTX blocks
- 80HL Racing blocks

Size 3 HL Upstand Link Detail



Size 3 upstand fits the following blocks:

- 105 synchro blocks
- 90 HTX blocks
- 105 Racing blocks

## NTR Torlon Ball (TB) Mainsheet Cars Size 1, 2 and 3

#### TB Short Car with Shackle



PART NO	SIZE	WOR LOAD KG	KING LIMIT	LEN MM	GTH   IN	WIE	OTH IN	WEI G	GHT oz
29421300BK	1	600	1329	107	4 3/16	71	2 3/4	228	8.00
29422300BK	2	1100	2420	140	5 <sup>1</sup> / <sub>2</sub>	92	3 <sup>5</sup> /8	386	13.6
29423301BK	3	2000	4400	150	5 <sup>15</sup> / <sub>16</sub>	88	3 1/2	680	24.0

TB Short Car with Upstand



PART NO	SIZE	WORKING LOAD LIMIT		LENGTH		WIDTH		WEIGHT	
		KG	LB	ММ	IN	ММ	IN	G	oz
29421400BK	1	600	1329	107	4 3/16	71	2 <sup>3</sup> / <sub>4</sub>	241	8.50
29422400BK	2	1100	2420	140	5 <sup>1</sup> / <sub>2</sub>	92	3 <sup>5</sup> /8	397	14
29423400BK	3	2000	4400	150	5 <sup>15</sup> / <sub>16</sub>	88	3 1/2	781	27.3

TB Car with Shackle



		ı		ı		ı		ı	
PART NO	SIZE		KING LIMIT	LEN	GTH	WIE	тн	WEI	GHT
		KG	LB	мм	IN	мм	IN	G	OZ
29431300BK	1	900	1980	162	6 3/8	71	2 3/4	313	11.0
29432300BK	2	1500	3300	210	8 <sup>5</sup> / <sub>16</sub>	92	3 5/8	639	22.5
29433300ВК	3	2500	5500	215	8 1/2	88	3 1/2	924	32.3

TB Car with Upstand





\* 29432420 fitted with size 3 upstand

PART	NO	SIZE	WOR LOAD	KING LIMIT	LEN	GTH	WIE	DTH	WEI	GHT
			KG	LB	ММ	IN	ММ	IN	G	OZ
294314	оовк	1	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	71	2 <sup>3</sup> / <sub>4</sub>	364	12.8
294324	OOBK	2	1500	3300	210	8 <sup>5</sup> / <sub>16</sub>	92	3 <sup>5</sup> /8	767	27
294324	20BK*	2*	2000	4400	210	8 <sup>5</sup> / <sub>16</sub>	92	3 <sup>5</sup> /8	839	33
294334	OOBK	3	2500	5500	215	8 1/2	88	3 1/2	743	26.0

## NTR Torlon Ball (TB) Mainsheet Cars Size 1, 2 and 3

### TB Car with Shackle and Single Control Line Sheaves



PART NO	SIZE	WORKING LOAD LIMIT		LENGTH		WIDTH		WEIGHT	
		KG	LB	мм	IN	мм	IN	G	OZ
29431311BK	1	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	71	2 <sup>3</sup> / <sub>4</sub>	374	13.2
29432311BK	2	1500	3300	210	8 <sup>5</sup> / <sub>16</sub>	92	3 <sup>5</sup> /8	747	26.3

# TB Car with Upstand and Single Control Line Sheaves



PAR	T NO	SIZE	WOR LOAD KG	KING LIMIT LB	LEN MM	GTH IN	WIE MM	OTH IN	WEI G	GHT oz
29431	411BK	1	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	71	2 <sup>3</sup> / <sub>4</sub>	421	14.8
29432	411BK	2	1500	3300	210	8 <sup>5</sup> / <sub>16</sub>	92	3 <sup>5</sup> /8	875	30.9
29433	602BK	3*	3500	7700	270	10 5/8	88	3 1/2	1595	55.8

TB Car with Shackle, Single CL Sheaves & Becket



PART NO	SIZE		KING LIMIT	LEN MM	GTH I IN	WIE	OTH I IN	WEI G	GHT oz	
29431315BK	1	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	71	2 3/4	378	13.2	l
29432315BK	2	1500	3300	210	8 <sup>5</sup> / <sub>16</sub>	92	3 5/8	867	34.1	

TB Car with Upstand, Single CL Sheaves & Becket



PART NO	SIZE	WOR LOAD KG	KING LIMIT LB	LEN MM	GTH IN	WIE MM	OTH IN	WEI G	GHT oz
29431415BK	1	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	71	2 <sup>3</sup> / <sub>4</sub>	472	16.6
29432415BK	2	1500	3300	210	8 <sup>5</sup> / <sub>16</sub>	92	3 <sup>5</sup> /8	993	35

#### TB Car with Shackle and Double Control Line Sheaves





\* 29432372BK fitted with double ball bearing control line sheaves

PART NO	SIZE	WOR LOAD KG	KING LIMIT LB	LEN MM	GTH IN	WIE MM	OTH IN	WEI G	GHT oz
29431312BK	1	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	71	2 <sup>3</sup> / <sub>4</sub>	435	15.3
29432312BK	2	1500	3300	210	8 <sup>5</sup> / <sub>16</sub>	92	3 <sup>5</sup> /8	871	30.7
29432372BK	2*	1500	3300	210	8 <sup>5</sup> / <sub>16</sub>	92	3 <sup>5</sup> /8	880	34.6
29433314BK	3	2500	5500	215	8 1/2	88	3 1/2	993	34.8

TB Car with Upstand and Double Control Line Sheaves





\* 29431712BK \* 29432424BK fitted with size 2 fitted with size 3 upstand upstand

\* 29443604BK fitted with size 3 HL upstand

PART NO	SIZE	WOR LOAD KG	KING LIMIT	LEN	GTH I IN	WIDTH		WEIGHT	
		NO	LD	IAIIAI	114	IAIIAI	114	G	02
29431412BK	1	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	71	2 <sup>3</sup> / <sub>4</sub>	486	17.1
29431712BK	1*	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	71	2 <sup>3</sup> /4	486	17.1
29432412BK	2	1500	3300	210	8 <sup>5</sup> / <sub>16</sub>	92	3 <sup>5</sup> /8	997	35.1
29432424BK	2*	2000	4400	210	8 <sup>5</sup> / <sub>16</sub>	92	3 <sup>5</sup> /8	1050	37
29433414BK	3	2500	5500	215	8 1/2	88	3 1/2	1200	42
29433604ВК	3*	3500	7700	270	10 5/8	88	3 1/2	1610	56.8

#### NTR Torlon Ball (TB) Mainsheet Cars Size 1, 2 and 3

#### TB Car with Shackle, Double CL Sheaves & Becket



PART NO	SIZE	WOR LOAD	KING LIMIT	LEN	GTH	WIE	)TH	WEI	GHT
		KG	LB	ММ	IN	мм	IN	G	OZ
29431316ВК	1	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	71	2 <sup>3</sup> /4	390	13.7
29432316вк	2	1500	3300	210	8 <sup>5</sup> /16	92	3 <sup>5</sup> /8	991	39

### TB Car with Upstand, Double CL Sheaves & Becket



PART NO	SIZE	WOR LOAD KG		LEN MM	GTH IN	WIE MM	OTH   IN	WEI G	GHT oz
29431416ВК	1	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	71	2 <sup>3</sup> / <sub>4</sub>	540	19.0
29432416BK	2	1500	3300	210	8 <sup>5</sup> / <sub>16</sub>	92	3 <sup>5</sup> /8	1117	39.4
29433416вк	3	2500	5500	215	8 1/2	88	3 1/2	1790	62.6

TB Car with Shackle and Plunger



PART NO	SIZE	WORKING LOAD LIMIT		LENGTH		WIDTH		WEIGHT		
		KG	LB	мм	IN	мм	IN	G	oz	
20/21227BK	1	000	1080	162	c 3/_	71	23/.	264	128	ı

TB Car, 2 x Sz3 Upstand, Double CL Sheaves, Becket & Cam





fitted with size 3 upstand

PART NO	SIZE		LIMIT		GTH I	WIE	ı	WEI	
		KG	LB	MM	IN	MM	IN	G	OZ
29432836вк	2*	2800	6160	307	12 1/16	120	4 3/4	2173	85.5

<sup>\*</sup> Car WWL, cleat WLL shown on p340

## TB Car with Shackle, Double CL Sheaves & Cam (4:1)



	PART NO	SIZE		KING LIMIT LB	LEN MM	GTH IN	WIE	OTH   IN	WEI G	GHT oz
2	9431834BK	1	900	1980	162	6 <sup>3</sup> /8	97	3 3/4		
_	.5452054511	_	500	1500	102	0 /8	37	3 /4		

<sup>\*</sup> Car WWL, cleat WLL shown on p340

#### Radius Cars

Radius cars available upon request for all size 1, 2 and 3.

Please contact your Lewmar representative and specify your track Vertical or Horizontal radius.

### TB Car with Upstand, Double CL Sheaves & Cam (4:1)



PART NO	SIZE	WOR LOAD KG	KING LIMIT LB	LEN MM	GTH IN	WI[ MM	OTH IN	WEI G	GHT oz
29431814BK	1	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	97	3 3/4	759	26.7
29432814BK	2	1500	3300	210	8 <sup>5</sup> / <sub>16</sub>	120	4 3/4	1496	52.7

<sup>\*</sup> Car WWL, cleat WLL shown on p340

### Spare Bearings: Torlon Balls for Ocean ® NTR Cars

PART NO	DESCRIPTION	WHERE USED	DIAM	ETER
			мм	IN
29171021	TORLON BALLS (PER 100)	SZ1 OCEAN AND NTR CARS	6.4	1/4
29172021	TORLON BALLS (PER 100)	SZ2 OCEAN AND NTR CARS	7.8	5/16



### NTR Torlon Ball (TB) Mainsheet Cars Size I, 2 and 3

### TB Car with Shackle, Double CL Sheaves, Becket & Cam (5:1)



PART NO	SIZE	WOR LOAD	KING LIMIT	LEN	GTH I IN	WI[ MM	OTH   IN	WEI G	GHT oz	
29431916вк	1	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	97	3 <sup>3</sup> / <sub>4</sub>	799	28.2	
29432916ВК	2	1500	3300	210	8 <sup>5</sup> / <sub>16</sub>	120	4 3/4	1730	68.1	

<sup>\*</sup> Car WWL, cleat WLL shown on p340

## TB Car Long, 2x Upstand, Double CL Sheaves





\* 29432832BK fitted with size 3 upstand

PART NO	SIZE		KING LIMIT	LEN	LENGTH		)TH	WEIGHT	
		KG	LB	ММ	IN	мм	IN	G	OZ
29432822ВК	2	1800	3960	307	12 1/16	92	3 5/8	1460	51.5
29432832ВК	2*	2800	6160	307	12 1/16	92	3 5/8	1560	55
29433832BK	3	3500	7700	270	10 5/8	88	3 1/2	1810	63.8

NTR Torlon Ball (TB) Genoa Cars Size I, 2 and 3

## TB Car with Upstand, Double CL Sheaves, Becket & Cam (5:1)





\* 29432838BK fitted with size 3 upstand

PART NO	SIZE	WORKING LOAD LIMIT		LEN	GTH	WIE	)TH	WEIGHT		
		KG	LB	мм	IN	ММ	IN	G	OZ	
29432816вк	2	1500	3300	210	8 <sup>5</sup> / <sub>16</sub>	120	4 3/4	1610	56.7	
29432838вк	2*	3500	7700	307	12 1/16	120	4 3/4	1786	70.3	

<sup>\*</sup> Car WWL, cleat WLL shown on p340

#### TB Car Long, 3x Upstand, Double CL Sheaves





\* 29432833BK fitted with size 3 upstand

PART NO	SIZE	WOR LOAD	KING LIMIT	LEN	IGTH	WIE	DTH	WEIGHT		
		KG	LB	ММ	IN	ММ	IN	G	OZ	
29432823ВК	2	3000	6600	307	12 1/16	92	3 5/8	1460	51.5	
29432833ВК	2*	3500	7700	307	12 1/16	92	3 5/8	1560	55	
29433833ВК	3	4000	8800	300	11 3/4	88	3 1/2	2190	77.2	

# TB Short Genoa Car with Tow Point



PART NO	SIZE		KING LIMIT LB	LEN MM	GTH IN	WIE MM	OTH   IN	WEI G	GHT oz
29421366вк	1*	600	1320	107	4 3/4	71	2 <sup>3</sup> /4	521	18.3

 $<sup>\</sup>ensuremath{^{*}}\xspace$  Limiter supplied non-assembled for a port or starboard application

#### TB Genoa Car with Becket



PART NO	SIZE	WOR LOAD	KING LIMIT	LEN	IGTH	WIE	DTH I	WEI	GHT
		KG	LB	ММ	IN	ММ	IN	G	OZ
29441301BK	1*	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	71	2 <sup>3</sup> / <sub>4</sub>	577	20.3
29442301BK	2*	1800	3960	210	8 <sup>5</sup> / <sub>16</sub>	120	4 3/4	1327	46.8

<sup>\*</sup> Limiter supplied non-assembled for a port or starboard application

NTR Torlon Ball (TB) Genoa Cars Size 1, 2 and 3

#### TB Genoa Car with Single Control Line Sheave



PART NO	SIZE	WOR LOAD KG		LEN MM	GTH IN	WIE MM	OTH IN	WEI <sup>1</sup>	GHT oz
29441311BK	1*		4000	162	6 <sup>3</sup> / <sub>8</sub>		2 3/4	560	40.0
29441321BK 29441331BK	1 PORT 1 STBD	900	1980	102	b 1/8	71	2 74	560	19.8
29442311BK	2*				-				
29442321BK 29442331BK	2 PORT 2 STBD	1800	3960	210	8 <sup>5</sup> / <sub>16</sub>	120	4 3/4	1330	46.9
29443311BK	3	3500	7700	215	8 1/2	88	3 1/2	1565	54.8
29443611BK	3	5000	11000	320	12 5/8	88	3 1/2		

<sup>\*</sup> Limiter supplied non-assembled for a port or starboard application

#### TB Genoa Car with Double Control Line Sheaves



PART NO	SIZE	WOR LOAD KG		LEN	GTH   IN	WI[	DTH IN	WEI G	GHT oz
29441312BK 29441322BK	1* 1 PORT	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	71	2 3/4	566	19.9
29441332BK	1 STBD								
29442312BK	2*								
29442322BK	2 PORT	1800	3960	210	8 <sup>5</sup> / <sub>16</sub>	120	4 3/4	1354	47.7
29442332BK	2 STBD								

<sup>\*</sup> Limiter supplied non-assembled for a port or starboard application

## TB Car Genoa stirrup, single CL sheave and becket



PART NO	SIZE	WORKING LOAD LIMIT		LENGTH		WIE	OTH.	WEIGHT		
		KG	LB	мм	IN	мм	IN	G	OZ	
29441345BK	1*	900	1980	162	6 <sup>3</sup> / <sub>8</sub>	71	2 <sup>3</sup> / <sub>4</sub>	566	19.9	
29442345BK	2*	1800	3960	210	8 <sup>5</sup> / <sub>16</sub>	120	4 3/4	1359	47.9	

<sup>\*</sup> Limiter supplied non-assembled for a port or starboard application

# Spare Bearings: Torlon Balls for Ocean ® NTR Cars



PART NO	DESCRIPTION	WHERE USED	DIAM	ETER
			ММ	IN
29171021	TORLON BALLS (PER 100)	SZ1 OCEAN AND NTR CARS	6.4	1/4
29172021	TORLON BALLS (PER 100)	SZ2 OCEAN AND NTR CARS	7.8	5/16

### Expert advice

Current Lewmar track is NTR specification.

If retrofitting check your track using the following:

- Size 3 NTR tracks have 12mm Ø plunger holes
- Size 3 Ocean tracks have 9.5mm Ø plunger holes

# NTR Slide Rod (SR) Cars Size I, 2 and 3

#### SR Car with Shackle



PART NO	SIZE	WORKING LOAD LIMIT		LENGTH		WIDTH		WEIGHT	
		KG	LB	ММ	IN	мм	IN	G	OZ
29431500BK	1	1000	2200	162	6 <sup>3</sup> / <sub>8</sub>	50	2	230	8.11
29432500BK	2	2000	4400	210	8 <sup>5</sup> / <sub>16</sub>	65	2 <sup>5</sup> /8	559	19.7

### SR Car with Shackle and Plunger Stop



PART NO	SIZE	WORKING LOAD LIMIT		LEN	LENGTH		WIDTH		GHT
		KG	LB	ММ	IN	ММ	IN	G	OZ
29441723BK	1	1000	2200	162	6 <sup>3</sup> / <sub>8</sub>	50	2	264	9.3
29442723BK	2	2000	4400	210	8 <sup>5</sup> / <sub>16</sub>	65	2 <sup>5</sup> /8	577	19.6

## NTR Slide Rod (SR) Cars Size I, 2 and 3

### SR Car with Shackle and Single Control Line Sheaves



PART NO	SIZE	LOAD	KING LIMIT	LEN	ĺ		OTH 	WEI	i	
		KG	LB	MM	IN	MM	IN	G	OZ	
29432511BK	2	2000	4400	210	8 <sup>5</sup> / <sub>16</sub>	65	2 <sup>5</sup> /8	667	23.5	

#### SR Car with Shackle and Double Control Line Sheaves



PART NO	SIZE	WOR LOAD		LEN	IGTH	WIE	OTH	WEI	GHT	
		KG	LB	ММ	IN	мм	IN	G	oz	
29432512BK	2	2000	4400	210	8 <sup>5</sup> / <sub>16</sub>	65	2 <sup>5</sup> /8	791	27.9	

## SR Car with Upstand and Double Control Line Sheaves



PART NO	SIZE	WOR LOAD KG	KING LIMIT LB	LEN MM	GTH IN	WI[ MM	OTH IN	WEI G	GHT oz
29442412BK	2	2000	4400	210	8 <sup>5</sup> / <sub>16</sub>	65	2 <sup>5</sup> /8	795	8

### SR Genoa Car



PART NO	SIZE	WOR LOAD KG		LEN MM	GTH IN	WIE MM	OTH   IN	WEI G	GHT oz
29441500BK	1*	1000	2200	162	6 <sup>3</sup> / <sub>8</sub>	50	2	480	16.8
29442500BK	2*	1800	3960	194	7 <sup>5</sup> /8	65	2 <sup>5</sup> /8	1100	38.8

<sup>\*</sup> Limiter supplied non-assembled for a port or starboard application

## SR Genoa Car with Plunger Stop



	1			l .		1		1	
PART NO	SIZE / DESCRIPTION	WOR LOAD	LIMIT	LEN	1		DTH I	WEI	ĺ
		KG	LB	MM	IN	ММ	IN	G	OZ
294417**BK	1	1000	2200	162	6 <sup>3</sup> /8	50	2	480	16.8
294427**BK	2	1800	3960	194	7 <sup>5</sup> /8	65	2 <sup>5</sup> /8	1201	42.4
29443700BK	3 (NTR TRACK)	3500	7700	180	7 <sup>1</sup> / <sub>16</sub>	70	2 <sup>13</sup> / <sub>16</sub>	1410	49.4
29443700CBK	3 (OCEAN TRACK)	3500	7700	180	7 <sup>1</sup> / <sub>16</sub>	70	2 <sup>13</sup> / <sub>16</sub>	1410	49.4
29443702ВК	3 (NTR COMPOSITE SHEAVE)	2250	4950	180	7 <sup>1</sup> / <sub>16</sub>	70	2 <sup>13</sup> / <sub>16</sub>	1079	37.8

<sup>\*\*</sup> Insert 00 for limiter non-assembled, 20 for port limiter and 30 for starboard limiter

# SR Genoa Car with Single Control Line Sheaves



PART NO	SIZE	WOR LOAD KG		LEN MM	GTH IN	WIE MM	OTH IN	WEI G	GHT oz
29441513BK	1*	1000	2200	162	6 <sup>3</sup> / <sub>8</sub>	50	2	484	17

<sup>\*</sup> Limiter supplied non-assembled for a port or starboard application

# NTR End Stops Size I, 2 and 3





PART NO	ING L	RK- _OAD MIT		GTH	WIE	ĺ		GHT
	KG	LE	ММ	IN	ММ	IN	G	0Z
29905105BK	500	1100	40	1 1/2	46	1 3/4	24	0.8

## Sz2 Impact End Stop



PART NO	WOR LO LIN	AD	LEN	GTH	WIE	)TH	WEI	GHT
	KG LB		ММ	IN	ММ	IN	G	OZ
29905200BK	1250	2755	114	4 <sup>1</sup> / <sub>2</sub>	80	3 1/8	158	5.6

REQUIRES EXTRA DRILLING IN THE TRACK

## Sz3 Impact End Stop



	won	I/INIC							
PART NO	WOR LOAD		LEN	GTH	WIE	DTH	WEI	GHT	
	KG	LB	мм	IN	ММ	IN	G	oz	
29473030BK	2200	4840	93	3 11/16	70	2 <sup>13</sup> / <sub>16</sub>	247	8.7	

## Bare End Stop



PART NO	SIZE	LOAD	 I		GTH I		DTH I		GHT
		KG	LB	MM	IN	MM	IN	G	OZ
29471030BK	1	585	1287	47	1 7/8	29	1 1/8	99	3.5
29472030BK	2	750	1650	105	4 1/8	65	2 5/8	238	8.4

## Mid Track Stop



PART NO	SIZE	WOR LOAD KG	KING LIMIT LB	LEN MM	GTH   IN	WIE MM	OTH   IN	WEI G	GHT oz
29472501BK	2	750	1650	105	4 <sup>1</sup> /8	65	2 <sup>5</sup> /8	238	8.4

## Mid Track Stop with Single CL Sheave & Becket



PART NO	SIZE		KING LIMIT	LEN	GTH	WIE	)TH	WEI	GHT
		KG	LB	мм	IN	мм	IN	G	OZ
29472535BK	2	750	1650	105	4 1/8	65	2 <sup>5</sup> /8	338	11.9

## Friction Stop



PART NO	SIZE		KING LIMIT	LEN	IGTH   IN	WIE	OTH   IN	WEI G	GHT   <sub>oz</sub>
29472038ВК	2	975	2145	87	3 3/8	65	2 <sup>5</sup> /8	261	9.2

## End Stop with Single CL Sheave



PART NO	SIZE		KING LIMIT LB	LEN MM	GTH   IN	WIE	OTH   NI	WEI G	GHT oz
29471031BK	1	585	1287	75	1 45/64	50	2	140	4.9
29472031BK	2	750	1650	105	4 1/8	65	2 5/8	301	10.6

## End Stop with Single CL Sheave and Becket



					_				1
PART NO SIZE		WOR LOAD	KING LIMIT			WIDTH		WEIGHT	
		KG	LB	мм	IN	мм	IN	G	OZ
29471035BK	1	585	1287	47	1 <sup>55</sup> / <sub>64</sub>	29	19/64	165	5.8
29472035BK	2	750	1650	105	4 1/8	65	2 5/8	331	11.7
29473035BK	3	800	1760	93	3 <sup>11</sup> / <sub>16</sub>	70	2 <sup>13</sup> / <sub>16</sub>	381	13.3
29473135BK	3 (HL)	3000	6600	140	5 1/2	70	2 <sup>13</sup> / <sub>16</sub>	537	18.8

### NTR End Stops Size I, 2 and 3

### End Stop with Double CL Sheaves



PART NO	SIZE	WOR LOAD KG	KING LIMIT LB	LEN MM	GTH IN	WIE MM	OTH   IN	WEI G	GHT oz
29471032BK	1	585	1287	75	1 45/64	50	2	172	6.1
29472032BK	2	750	1650	105	4 1/8	65	2 5/8	363	12.8
29473032BK	3	800	1760	93	3 11/16	70	2 <sup>13</sup> / <sub>16</sub>	390	13.7

## End Stop with Double CL Sheaves and Becket







\* Fitted with ball bearing control line sheaves

\*\* Fitted with HDI control line sheaves

PART NO	SIZE	LOAD			GTH	WIE	1	WEI	I
		KG	LB	ММ	IN	ММ	IN	G	0Z
29471036ВК	1	585	1287	47	1 <sup>55</sup> / <sub>64</sub>	29	19/64	185	6.5
29472036вк	2	750	1650	105	4 1/8	65	2 5/8	393	13.8
29472076вк	2*	750	1650	105	4 1/8	65	2 5/8	400	14.1
29472616вк	2**	750	1650	105	4 1/8	65	2 5/8	400	14.1
29473036вк	3	800	1760	93	3 <sup>11</sup> / <sub>16</sub>	70	2 <sup>13</sup> / <sub>16</sub>	460	16.1
29473136ВК	3 (HL)	3000	6600	140	5 1/2	70	2 <sup>13</sup> / <sub>16</sub>	769	27.1

## End Stop with Double CL Sheaves, Becket & Cam (pair)



PART NO	SIZE	WOR LOAD	KING LIMIT	LEN	GTH	WIE	DTH.	WEI	GHT
		KG	LB	мм	IN	ММ	IN	G	oz
29471836вк	1	585	1287	75	2 <sup>61</sup> / <sub>64</sub>	78	3 <sup>5</sup> / <sub>64</sub>	258	9.1
29472836вк	2	750	1650	105	4 1/8	112	4 <sup>5</sup> /8	602	21.2

<sup>\*</sup> End stop WWL, cleat WLL shown on p340

### **End Stop Sheet Lead**



PART NO	SIZE	WOR LOAD KG	KING LIMIT LB	LEN MM	GTH IN	WI[ MM	OTH   IN	WEI	GHT Oz
29441701BK	1	1000	2200	162	6 <sup>3</sup> / <sub>8</sub>	50	2	480	16.8
29442701BK	2	1800	3960	194	7 <sup>5</sup> /8	65	2 <sup>5</sup> /8	1134	40
29443701BK	3	2000	4400	140	5 1/2	70	2 <sup>13</sup> / <sub>16</sub>	885	31

## Plunger Stop



#### \*Size 3 plunger stop:

- f retrofitting check your track :
- 29473037BK fits size 3 NTR tracks (12mm Ø plunger holes)
- 29473037CBK fits size 3
   Ocean tracks (9.5mm Ø plunger holes)

PART NO	SIZE	WOR LOAD	KING LIMIT		GTH		DTH I	WEI	GHT Oz
		KG.	LB	ММ	IN	ММ	IN	G	UZ
29471037BK	1	650	1430	43	1 11/16	50	2	83	2.9
29472037BK	2	975	2145	87	3 3/8	65	2 5/8	261	9.2
29473037BK	3*	2000	4400	80	3 <sup>3</sup> /16	70	2 <sup>13</sup> / <sub>16</sub>	298	10.4
29473037СВК	3*	2000	4400	80	3 <sup>3</sup> /16	70	2 <sup>13</sup> / <sub>16</sub>	298	10.4

#### Track End



PART NO	SIZE	WEI	
		G	OZ
29171040BK	1	22	0.77
29172040BK	2	30	1.1
29173040BK	3	42	1.5

### **NTR Car Links**

#### Short Car Link



PART NO	SIZE
29471063ВК	1
29472063ВК	2
29473063ВК	3

## Car Link with Sz3 Upstand



PART NO	SIZE
29472062ВК	2

# **NTR Spares and Accessories**

### Beam Track End Cover (Pair)



PART NO	SIZE	WEI	GHT
		G	oz
29471041BK	1	12	0.4
29472041BK	2	26	0.9
29473041BK	3	42	1.5

### HD Beam Track End Cover (Pair)



PART NO	SIZE	LENGTH		WIDTH		WEIGHT	
		ММ	IN	мм	IN	G	oz
29471042BK	1	13	1/2	50	2	18	0.6
29472042BK	2	22	7/8	65	2 <sup>5</sup> / <sub>8</sub>	40	1.4

## Single Control Line Sheaves (Pair)



PART NO	SIZE	SHE.	AVE Ø	WEI	GHT
		ММ	IN	G	0Z
29471011BK	1	29	1 1/8	82	2.9
29472011BK	2	63	2 <sup>1</sup> / <sub>2</sub>	137	4.8

## Double Control Line Sheaves (Pair)



PART NO	SIZE	SHE	AVE Ø	WEI	GHT	
		мм	IN	G	oz	ı
29471012BK	1	29	1 1/8	148	5.2	ı
29472012BK	2	63	2 1/2	261	9.2	ı

## Double Control Sheaves & Cleats (Pair)



PART NO	SIZE	WOR LOAD KG		WEI G	GHT oz
29471018BK	1	180	396	180	6.3
29472018BK	2	180	396	625	22

Cleat Assembly for End Stop (Pair)



PART NO	SIZE	WORKIN LIN		WEI	GHT
		KG	LB	G	oz
29471015BK	1	180	396	123	4.3
29472015BK	2	180	396	368	12.9

Genoa Stirrup Assembly



PART NO	SIZE	WOR LOAD KG	KING LIMIT LB	WI[	OTH   IN	WEIGHT G oz	
28003225BK	1	1000	2200	45	1 3/4	227	8
28003226BK	2	1800	3960	60	2 <sup>3</sup> /8	620	21.9

**Upstand Assembly** 



PART NO	SIZE
29171024	1
29172024	2
29473024	3

For upstand cup dims and block compatibility see P. 159

Becket Assembly (Pair)



PART NO	SIZE	WEI	GHT
		G	OZ
29471010	1	51	1.7
29472010	2	114	4.2

## Slide Rods



PART NO	SIZE
25002920	1
25003438	2
25003969	3

Rubber Buffer Kit



PART NO	SIZE
29171046ВК	1
29172046ВК	2
29173046вк	3

To fit end stops and slide rod cars  $% \left\{ 1,2,...,n\right\}$ 



# HTX Size I & 2 Cars

Lewmar has developed the HTX Traveller Range to complement the HTX Block Range. This range of travellers has come from many years of design and manufacturing experience and collaboration with boat builders, designers, and sailors. At the core of the HTX Traveller Range is the Captive Ball Traveller. Featuring the neat, stylish retention of the ball bearings within the car, the Captive Ball Traveller is simple to install and easy to remove for cleaning and maintenance without the risk of losing ball bearings.



- Ideal for boats up to 15 metres (49 ft)
- Minimalistic car body made of fewer parts
- Compact, one-piece aluminium body and composite end caps designed with smoother lines
- Available in multiple configurations, including single or double control line sheaves, becket, and cam cleat
- Compatible slide-rod Genoa car with stirrup
- Three individual ball races: the first two allow fast movement of the car under vertical load, and the third allows smooth running of the car under deflection

- Larger balls means more ball surface exposure, increasing overall efficiency
- Ball bearings circulate through an open structure allowing easy cleaning when installed
- Proprietary dowel mechanism provides smooth ball circulation
- Upstand receives shackle or lashed rope, removing need for a becket above the control line sheaves



# **HTX Mainsheet Traveller Systems**



### Size I Mainsheet System

In the Size I kit, you'll find all the components necessary to assemble a standard system.

- For boats up to I Im (36ft)
- Suitable for 8mm (5/16") control line

#### Size 2 Mainsheet System

Like the size I system, the Size 2 Mainsheet system comes with everything you need for a complete standard system, including the sliding bolt track.

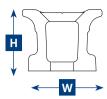
- For boats up to 15m (49ft)
- Suitable for 10mm (3/8") control line

Size 1&2 Traveller Kit 4:1 Purchase System

	SIZE 1	SIZE 2
TRAVELLER SYSTEM	29961534	29962534
COMPRISES:		
1 X MAINSHEET CAR SHACKLE WITH DOUBLE CONTROL LINE SHEAVES, CLEATS ${\mathfrak A}$ BECKETS	291213315	291223415
2 X END STOP WITH DOUBLE CONTROL LINE SHEAVES	291218806	291228806
1 X SLIDING BOLT TRACK	29181415	29182420
TRACK LENGTH	1.5M	2.0M

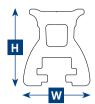
#### HTX Size I & 2 Tracks

#### **Drilled Plunger Track**



Commonly used and particularly useful where through deck fixing is not possible, such as in double skinned boats, where fixing bolts are trapped into a plate in the deck.

#### Beam Track



Beam track is used when spanning cockpits and across companion way hatches. Three fixing bolts should always be used either side of the span and washers fitted under the head of the bolt and between track and deck. Some beam track can only use metric fasteners

Made of Aluminium 6082T6 extrusion

## HTX Track Specifications and Fixing Details

PART NO	DESCRIPTION	TRACK SIZE	ACTUAL	LENGTH	HEI	GHT	WIE	тн	WIE (ove	TH RALL)	WEI (per n		MAX SPAN FIXIN CENTRE HOL	IGS/	FIXI	NGS
			М	FT	ММ	IN	мм	IN			G	OZ	ММ	IN	METRIC	IMPERIAL
29181415			1.526	5'												
29181420	DRILLED PLUNGER TRACK	1	2.026	6'8"	20	0.78	22.0	0.86	25	0.98	658	23.21	100	3 <sup>15</sup> /16	м6	1/4"
29181430	- Trivier		3.026	9'11"												
29182415			1.532	5'												
29182420	DRILLED PLUNGER TRACK	2	2.032	6'3"	24	0.94	26.4	1.04	31	1.22	933	32.91	100	3 <sup>15</sup> / <sub>16</sub>	м8	5/16"
29182430			3.032	10'												
29181315			1.5	4'11"								-0		27 <sup>9</sup> /16	м8	5/16"
29181320	BEAM TRACK	1	2.0	6'7"	31	1.22	27.8	1.09			1092	38.52	700	27 -/16	МВ	7/16
29182315			1.5	4'11"				0				05	0	/-		- /0"
29182320	BEAM TRACK	2	2.0	6'7"	40	1.57	35.1	1.38			1697	59.86	800	31 1/2	M10	3/8"

#### HTX Size I & 2 Cars

#### Size I Traveller System

For boats up to 11m (36ft)

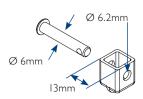
Suitable for 8mm (5/16") control line

#### Size 2 Traveller System

For boats up to 15m (49ft).

Suitable for 10mm (3/8") control line.

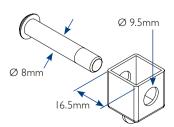
#### HTX Size I Upstand Cup Detail



Size I upstand fits the following blocks:

- 72 Synchro blocks
- 60 HTX blocks
- 60 Single Racing blocks

#### HTX Size 2 Upstand Cup Detail

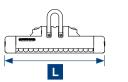


Size 2 upstand fits the following blocks:

- 90 Synchro blocks
- 72 HTX blocks
- 80 Triple Racing blocks

# HTX Size I & 2 Torlon Ball (TB) Mainsheet Cars

#### Mainsheet Car - Dimension Diagram





### Size I Traveller System

For boats up to 11m (36ft)
Suitable for 8mm (5/16") control line

### Size 2 Traveller System

For boats up to 15m (49ft). Suitable for 10mm (3/8") control line.

TB Short Car with Shackle



PART NO	SIZE	WOR LOAD		LEN	GTH	WIE	тн	WEI	GHT
		KG	LB	ММ	IN	ММ	IN	G	OZ
291222301	2	1500	3300	140	5 <sup>1</sup> / <sub>2</sub>	85	3 3/8	525	18.5

TB Car with Shackle



PART NO	SIZE	LOAD	WORKING LOAD LIMIT		LENGTH		WIDTH		GHT
		KG	LB	ММ	IN	ММ	IN	G	OZ
291213301	1	1100	2420	160	6 <sup>5</sup> / <sub>16</sub>	71	2 <sup>13</sup> / <sub>16</sub>	427	15.1
291223301	2	2200	4850	205	8 <sup>1</sup> / <sub>16</sub>	85	3 3/8	772	27.2

TB Car with Shackle and Single Control Line Sheaves



PART NO	SIZE	WORKING LOAD LIMIT		LENGTH		WIDTH		WEIGHT	
		KG	LB	ММ	IN	ММ	IN	G	0Z
291213305	1	1100	2420	160	6 <sup>5</sup> / <sub>16</sub>	71	2 <sup>13</sup> / <sub>16</sub>	450	15.9
291223305	2	2200 4850		205	8 <sup>1</sup> / <sub>16</sub>	85	3 <sup>3</sup> /8	880	31.0

TB Car with Shackle and Double Control Line Sheaves



PART NO	SIZE	WOR LOAD	KING LIMIT	LEN	GTH	WIE	)TH	WEI	GHT
		KG	LB	ММ	IN	ММ	IN	G	OZ
291223306	2	2000	4400	205	8 <sup>1</sup> / <sub>16</sub>	85	3 3/8	980	34.6

TB Car with Shackle, Single Control Sheaves & Becket



PART NO	SIZE	WOR LOAD	KING LIMIT	LEN	GTH	WIE	отн	WEI	GHT
		KG	LB	ММ	IN	мм	IN	G	OZ
291213308	1	1100	2420	160	6 <sup>5</sup> / <sub>16</sub>	71	2 <sup>13</sup> / <sub>16</sub>	510	18.0
291223308	2	2200	4850	205	8 <sup>1</sup> / <sub>16</sub>	85	3 <sup>3</sup> /8	1156	40.8

TB Car with Upstand, Single Control Sheaves & Becket



PART NO	SIZE	WOR LOAD	KING LIMIT	LEN	GTH	WIE	DTH	WEI	GHT
		KG	LB	ММ	IN	ММ	IN	G	0Z
291213408	1	800	1764	160	6 <sup>5</sup> / <sub>16</sub>	71	2 <sup>13</sup> / <sub>16</sub>	545	19.2
291223408	2	2200	4850	205	8 <sup>1</sup> / <sub>16</sub>	85	3 <sup>3</sup> /8	1310	46.2

WFIGHT

#### TB Car with Upstand, Double Control Sheaves & Cleat



					-						
	PART NO	SIZE			LEN	GTH	WIE	)TH	WEI	GHT	
			KG	LB	ММ	IN	мм	IN	G	oz	
PART NO SIZE LOAD LIMIT LENGTH WIDTH WEIG    KG   LB   MM   IN   MM   IN   G								59.6			
	* Car WWI	_, cleat	WLL	shown '	on p34	0					

# TB Car with Shackle, Double Control Sheaves, Becket & Cleat

#### TB Car with Upstand and Double Control Sheaves



PART NO	SIZE	WOR LOAD	KING LIMIT	LEN	GTH	WIE	DTH .	WEI	GHT	
		KG	LB	ММ	IN	ММ	IN	G	oz	
291213406	1	800	1600	160	6 <sup>5</sup> / <sub>16</sub>	71	2 <sup>13</sup> / <sub>16</sub>	627	22.1	
291223406	2	2200	4850	205	8 <sup>1</sup> / <sub>16</sub>	85	3 <sup>3</sup> /8	1250	44.1	

## TB Car with Upstand, Double Control Sheaves, Becket & Cleat



PART NO	SIZE	WORKING LOAD LIMIT		LEN	GTH	WIDTH		WEIGHT	
		KG	LB	ММ	IN	ММ	IN	G	OZ
291213315	1	1100	2420	167	6 <sup>9</sup> / <sub>16</sub>	98	3 7/8	750	26.5
291223315	2	2200	4850	225	8 <sup>7</sup> /8	132	5 <sup>3</sup> / <sub>16</sub>	1580	55.7

<sup>\*</sup> Car WWL, cleat WLL shown on p340



<sup>\*</sup> Car WWL, cleat WLL shown on p340

### TB Car with Double Upstand



		WOBKII	NC L OAD							
PART NO	SIZ		WORKING LOAD		IGTH	WIE	DTH	WEI	GHT	
		KG	LB	ММ	IN	ММ	IN	G	oz	
29122360	1 2	2600	5732	305	12	85	3 3/8	1920	67.7	

### TB Car with Double Upstand and Double Control Sheaves

мм

мм



PART NO	SIZE		WORKING LOAD		LENGTH		WIDTH		WEIGHT	
		KG	LB	мм	IN	мм	IN	G	oz	
291223606	2	2600	5732	305	12	85	3 3/8	2249	79.3	

# HTX Size I & 2 Slide Rod (SR) Cars

#### SR Car with Shackle



PART NO	SIZE	WOR LOAD	KING LIMIT	LEN	GTH	WIE	)TH	WEI	GHT
		KG	LB	ММ	IN	ММ	IN	G	OZ
291213501	1	1100	2420	160	6 <sup>5</sup> / <sub>16</sub>	71	2 <sup>13</sup> / <sub>16</sub>	310	10.9
291223501	2	2200	4850	205	8 <sup>1</sup> / <sub>16</sub>	85	3 <sup>3</sup> /8	730	25.8

#### SR Car with Shackle and Plunger



PART NO	SIZE	WORKING LOAD LIMIT		LENGTH		WIDTH		WEIGHT	
		KG	LB	мм	IN	мм	IN	G	oz
291213537	1	1100	2420	160	6 <sup>5</sup> / <sub>16</sub>	71	2 <sup>13</sup> / <sub>16</sub>	365	12.9
291223537	2	2200 4850		205	8 <sup>1</sup> / <sub>16</sub>	85	3 3/8	790	27.9

HTX Size 2 Double Upstand Torlon Ball (TB) Mainsheet Cars

### HTX Size I & 2 Genoa Cars

SR Genoa Car with Plunger



PART NO	SIZE	WOR LOAD KG		LEN MM	GTH IN	WIE MM	OTH IN	WEI G	GHT oz
291214537 291215537	1 PORT	1100	2420	160	6 <sup>5</sup> / <sub>16</sub>	71	2 <sup>13</sup> / <sub>16</sub>	630	22.2
291224537 291224537 291225537	2 PORT 2 STBD	2200	4850	205	8 <sup>1</sup> / <sub>16</sub>	85	3 3/8	1500	52.9

TB Genoa Car with Single Control Line Sheave



PART NO	SIZE	WOR LOAD	KING LIMIT	LEN	GTH	WI	DTH	WEI	GHT
		KG	LB	ММ	IN	MM	IN	G	OZ
291214305	1 PORT	1100	2420	160	6 <sup>5</sup> / <sub>16</sub>	71	2 <sup>13</sup> / <sub>16</sub>	650	22.9
291215305	1 STBD		· ·			,		*	, and
291224305	2 PORT	2200	4850	205	8 <sup>1</sup> / <sub>16</sub>	85	3 <sup>3</sup> /8	1600	56.4
291225305	2 STBD		4000		5 / 16	5	3 /8	1000	55.4

TB Genoa Car with Single Control Line Sheave & Becket



PART NO	SIZE	WOR LOAD KG	KING LIMIT LB	LEN MM	GTH IN	WIE MM	OTH   IN	WEI G	GHT oz
291214308 291215308	1 PORT 1 STBD	1100	2420	160	6 <sup>5</sup> / <sub>16</sub>	71	2 <sup>13</sup> / <sub>16</sub>	650	22.9
291224308 291225308	2 PORT 2 STBD	2200	4850	205	8 <sup>1</sup> / <sub>16</sub>	85	3 3/8	1600	56.4

# HTX Size I & 2 End Stops

Impact End Stop



PART NO	SIZE	WOR LOAD KG	KING LIMIT LB	LEN MM	GTH IN	WIE MM	OTH   IN	WEI G	GHT oz
291218818	1	500	1100	83	3 1/4	71	2 <sup>13</sup> / <sub>16</sub>	190	6.7
291228818	2	1000	2200	103	4 1/16	85	33/8	350	12.3

Plunger Stop



									ĺ	
PART N	10	SIZE	WORKING LOAD LIMIT		LENGTH		WIDTH		WEIGHT	
			KG	LB	ММ	IN	ММ	IN	G	oz
2912188	37	1	500	1100	83	3 <sup>1</sup> / <sub>4</sub>	71	2 <sup>13</sup> / <sub>16</sub>	245	8.6
2912288	37	2	1000	2200	103	4 <sup>1</sup> /16	85	33/8	475	16.8

End Stop with Single Control Line Sheave



PART NO	SIZE	WOR LOAD	KING LIMIT	LEN	GTH	WIE	DTH	WEI	GHT
		KG	LB	ММ	IN	ММ	IN	G	OZ
291218805	1	500	1100	83	3 1/4	71	2 <sup>13</sup> / <sub>16</sub>	210	7.4
291228805	2	1000	2200	103	4 <sup>1</sup> /16	85	33/8	400	14.1

End Stop with Double Control Line Sheaves



PART NO	SIZE		WORKING LOAD LIMIT		LENGTH		WIDTH		GHT
		KG	LB	ММ	IN	ММ	IN	G	oz
291218806	1	500	1100	83	3 1/4	71	2 <sup>13</sup> / <sub>16</sub>	240	8.5
291228806	2	1000	2200	103	4 <sup>1</sup> / <sub>16</sub>	85	33/8	450	15.9

## End Stop with Single Control Line Sheave & Becket





PART NO	SIZE		KING LIMIT	LEN	GTH	WIE	тн	WEI	GHT
		KG	LB	ММ	IN	ММ	IN	G	OZ
291218808	1	500	1100	83	3 1/4	71	2 <sup>13</sup> / <sub>16</sub>	240	8.5
291228808	2	1000	2200	103	4 <sup>1</sup> /16	85	3 3/8	450	15.9

## End Stop with Double Control Line Sheaves & Becket



PART NO	SIZE	WOR LOAD	KING LIMIT	LEN	GTH	WIE	DTH .	WEI	GHT
		KG	LB	ММ	IN	мм	IN	G	oz
291218809	1	500	1100	83	3 1/4	71	2 <sup>13</sup> / <sub>16</sub>	270	9.5
291228809	2	1000	2200	103	4 <sup>1</sup> /16	85	3 3/8	500	17.6

### End Stop with Double Control Line Sheaves, Becket & Cleat



PART NO	SIZE	WOR LOAD KG		LEN MM	GTH IN	WIE MM	OTH IN	WEI G	GHT oz
291214815 291215815	1 PORT 1 STBD	500	1100	83	3 1/4	98	37/8	365	12.9
291224815 291225815	2 PORT 2 STBD	1000	2200	103	4 1/16	132	5 <sup>3</sup> / <sub>16</sub>	740	26.1

**End Stop Sheet Lead** 



PART NO	SIZE		WORKING LOAD LIMIT		LENGTH		WIDTH		GHT
		KG	LB	ММ	IN	ММ	IN	G	OZ
291218817	1	500	1100	160	6 <sup>5</sup> / <sub>16</sub>	71	2 <sup>13</sup> / <sub>16</sub>	600	21.2
291228817	2	1000	2200	205	8 <sup>1</sup> / <sub>16</sub>	85	3 3/8	1400	49.3

#### HTX Track End



PART NO	SIZE	LEN	GTH	WIE	DTH	WEI	GHT
		мм	IN	мм	IN	G	OZ
291219907	1	40	1 5/8	57.5	2 1/4	20	0.7
291229907	2	45	1 3/4	65	2 1/2	40	1.4

# Sz I & 2 HTX Spares and Accessories

### Cleat Assembly for End stop (Pair)



PART NO	SIZE	WORKING LOAD LIMIT					
		KG	LB				
291219905	1	200	440				
291229905	2	300	660				

### Spare Slide Rods Kit



PART NO	SIZE
291219910	1
291229910	2

## Spare Rubber Buffer Kit



PART NO	SIZE
291219911	1
291229911	2

## HTX Upstand Kit



PART NO	SIZE
291219901	1
291229901	2

<sup>\*</sup> End stop WWL, cleat WLL shown on p340



# Genoa T-Track Cars

T-Track is widely used on cruising boats where car sheeting positions change frequently.

All Lewmar T-Track cars fit the industry standard: 32mm (1 1/4"). The cars are available in three styles and cover three different loading levels to suit boats from 9m (30ft) up to 15.5m (50ft).

- Precision Workmanship
- Simple to fit
- Three Styles
- Low Maintenance

### Car with Shackle and Plunger



PART NO	SIZE		KING LIMIT LB	LEN MM	GTH IN	WIE MM	OTH   IN	WEIGHT G oz	
29172117	2	1500	3300	120	4 11/16	56	2 1/4	480	17.0

### Genoa Plunger Car



PART NO	SIZE	WORKING LOAD LIMIT		LEN	GTH	WIE	отн	WEIGHT		
		KG	LB	мм	IN	мм	IN	G	OZ	
29041700	1	900	1980	111	4 3/8	56	2 1/4	540	19.1	
29042700	2	1500	3300	120	4 11/16	56	2 1/4	719	25.3	
29043702	3	2350	5170	170	6 3/4	56	2 1/4	1199	47.3	

#### Tri-Roller Genoa Car



PART NO	SIZE	WORKING LOAD LIMIT			GTH I		OTH I	WEIGHT	
		KG	LB	MM	IN	MM	IN	G	OZ
29442705	2	1500	3300	147	5 3/4	64	2 1/2	767	27.1

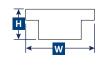
### Track End Stop

PART NO	WEIGHT			
	G	OZ		
29172016	19	0.7		



### T-Track Specification





PART NO		INAL IGTH	HEI	<b>1</b> GHT		V DTH		GHT (ETRE)	CENTR	E HOLE	FIXI	NGS
	М	FT	ММ	IN	ММ	IN	ММ	IN	G	oz	METRIC	IMPERIAL
29166215	1.5	4'11"										
29166225	2.5	8'2"	15	5/8	32	1 1/4	865	30.5	100	3 <sup>15</sup> / <sub>16</sub>	CSK M8	5/16"
29166230	3.0	9'10"									INIO	

# Size 4 Cars and Accessories

## For offshore yachts 60ft and over and the performance sailor.

- High load 80mm (3 1/8") control line sheaves for 14mm (9/16") line.
- 12mm (1/2") torlon balls running in fully machined ball races.
- Additional weight reducing slots machined along the top of the return ball race
- End stops fixed through deck and track
- Custom variants available contact custom@lewmar.com

### Size 4 Racing Mainsheet car



PART NO	DESCRIPTION		WORKING LOAD LIMIT KG LB		LENGTH		OTH	WEIGHT	
		NG NG	LD	IAIIAI	114	ММ	114	٥	02
29903401	SINGLE UPSTAND AND SINGLE CONTROL LINE SHEAVES	8000	17634	465	18 3/8	113	4 7/16	5195	183.2
29903402	TWIN UPSTAND AND SINGLE CONTROL LINE SHEAVES	8000	17634	465	18 3/8	113	4 7/16	5195	183.2

### Size 4 Racing Genoa car



PART NO	DESCRIPTION	WOR LOAD	KING LIMIT	LEN	GTH	WIE	)TH	LINE HEI	EXIT GHT	WEI	GHT
		KG	LB	ММ	IN	ММ	IN	ММ	IN	G	OZ
29903451	GENOA STIRRUP ® DEAD EYE- PORT	6000	40005	-0-	45.4/0	440	4 7/16	407	5 3/8	67/0	236.5
29903452	GENOA STIRRUP ® DEAD EYE- STARBOARD	6000	13225	385	15 1/8	113	4 /16	137	5 3/0	6740	230.5
29903453	GENOA STIRRUP WITH SINGLE CL SHEAVE- PORT	6000	40005	-0-	45.4/0	440	4 7/16	405	- n/0	Caro	226.5
29903454	GENOA STIRRUP WITH SINGLE CL SHEAVE- STBD	6000	13225	385	15 1/8	113	4 /16	137	5 3/8	6740	236.5
29903457	GENOA STIRRUP WITH SLIDE ROD PLUNGER- PORT	C		-0-			7,		/0	C	
29903458	GENOA STIRRUP WITH SLIDE ROD PLUNGER- STBD	6000	13225	385	15 1/8	113	4 7/16	137	5 3/8	6740	236.5

### Size 4 Racing End Stop









29905400

29905401

29905412

29905414

PART NO	DESCRIPTION	WORKING LOAD LIMIT		LENGTH MM IN		WIE	OTH   IN	WEIGHT	
29905400	HIGH LOAD IMPACT END STOP	4000	8817	185	7 1/4	113	4 7/16	1040	36.7
29905401	TRACK END	1000	2204	110	4 <sup>5</sup> /16	113	4 7/16	580	20.5
29905410	CONTROL LINE END STOP	6000	13225	185	7 1/4	113	4 7/16	1500	52.9
29905412	PLUNGER STOP	3000	6613	110	4 <sup>5</sup> /16	113	4 7/16	897	31.6
29905414	TRACK PLUG							36	1.3

#### Size 4 Tracks

### Size 4 Drilled plunger track Specifications & Fixing Details

PART NO	LEN	IGTH	HEI		WIE	V DTH	WEI (per n	GHT netre)	FIXI	BETWEEN NGS / E HOLE	FIXI	NGS
	М	FT	ММ	IN	мм	IN	G	OZ	ММ	IN	METRIC	IMPERIAL
29917420BK	2.	6'7"										
29917430BK	3	9'10"		,				0.5		15.		,
29917440BK	4	13'1"	29	1 1/6	50	2	2228	78.6	100	3 <sup>15</sup> /16	CSK M12	1/2
29917450BK	5	16'5"										





# Lewmar Custom Yacht Systems

## On Deck Control Systems

Custom yacht have individual requirements for sail control equipment, from application and loads to the profile of the deck on which the equipment will be installed. Each Lewmar track is designed with these specific requirements in mind.

Recent innovations included track that can be curved to bespoke dimensions, including multidirectional compound curves. The high load double ball race (DBR) profile offers a stronger, deeper section for use with high load cars, while T-track and DBR track feature machined track ends for a lightweight, low-profile car retention solution.

Lewmar Custom Mainsheet and Genoa systems are ideal for yachts from 2Im (70ft) to 70m (230ft) in length. Each car is available with a choice of recirculating Torlon balls or the shorter, stronger Double Ball Race (DBR) configuration. Styled with snag-free soft edges, Lewmar cars are machined from solid to individual specifications. A full range of end stops are available, including high-load impact, plunger, and control line models.

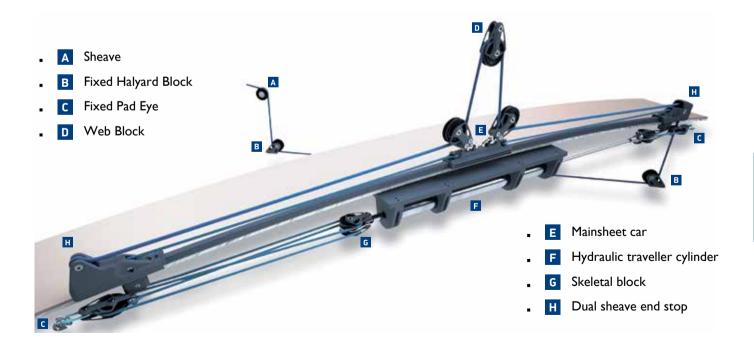






# **Below Deck Sheeting System**

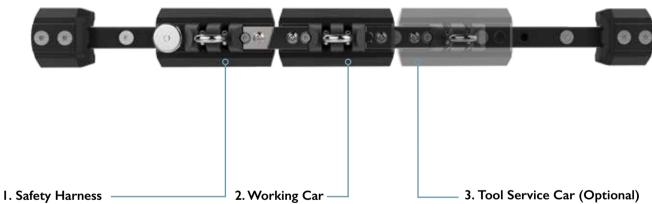
Each element of the Lewmar Custom Hardware Range is compatible with its counterparts, resulting in the ability to supply a complete, bespoke sail control system. For example, an increasing emphasis on beautiful, sleek, minimalistic lines has resulted in the below-deck sheeting system, which offers a light-weight, fully-optimised system that does not clutter the clean lines of the deck. With a choice of configurations and finishes available, Lewmar can provide a system suited to your individual requirements.





# Overside Work Rail System

Lewmar's Overside Work Rail System is designed to provide access to difficult areas at height. As a solution to a problem found across the marine sector and wider industry, our Overside System is well-designed and practical, conforming to neccessary regulations.



- Use a full body safety harness attached to the plunger pin stop car slider.
- Full body harness must meet CE/ANSI support standards.
- Use a working harness or chair attached to access car.
- Working harness or chair must meet CE/ANSI standards.
- Attach an optional car and joiner link for use as a tool carrier



CE standard certification EN 795.



### Design

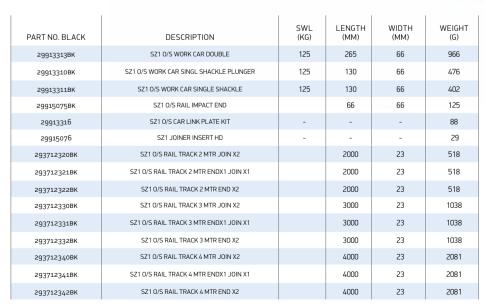
Two car system with lock plunger mechanism. The plunger feature allows movement along the track while open but can lock to position on the track while working. Offering ease of movement and strong stability when locked.

#### **Ball Bearings**

Torlon® ball bearings handle high loads, reducing friction offering smooth operation along the track. Ball bearings circulate through open structure allowing easy cleaning when installed.

#### **Materials**

Black Compact, one-piece aluminium body, Torlon® ball bearings & black anodized aluminium track.





 $\epsilon$ 

#### Certification

CE certified and tested under certification EN 795.



# Clutches

Lewmar continues to define rope clutch technology with a variable geometry handle and unique grip pattern of dominos that prevent rope fray. This revolutionary system has been independently tested time and again and has won awards for its innovative framework.

- A Domino Cluster and longer holding pattern holds line under load without fraying the rope
- B Controlled Release Pull back handle combined with patented clutch and release mechanism provides controlled release even at full holding load.
- C Handle has a solid link to the domino cluster
- Line Size Clutches capable of holding lines from 6mm (1/4") to 14mm (9/16")



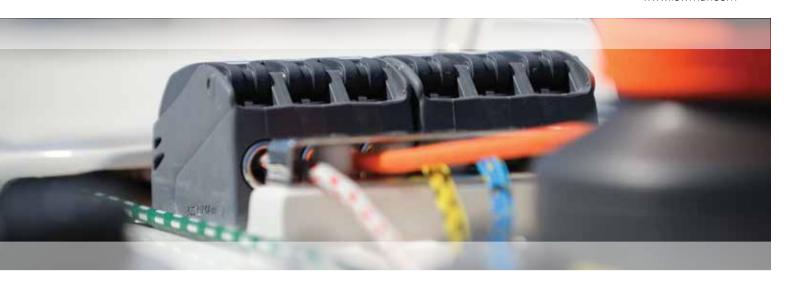


Instead of just jamming the rope...



... Lewmar's

Domino mechanism
flexes it for better
grip and less rope
wear.



# **DC Rope Clutches**



DCI Single



DCI Double



DCI Triple



DC2 Single



DC2 Double



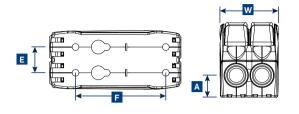
DC2 Triple

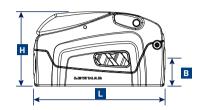
# DCI Rope Clutch Specifications

# DC2 Rope Clutch Specifications

PART NO	DESCRIPTION	LINE	SIZE	MIN HC		APPI WEI		w	LL	PART NO	DESCRIPTION	LINE	SIZE		DLDING AD	APP WEI		W	LL
		мм	IN	KG	LB	G	oz	KG	LB			мм	IN	KG	LB	G	oz	KG	LB
29101108ВК	6-8 MM DC1 SINGLE					330	12	500	1100	29101410BK	8-10MM DC2 SINGLE					650	23	1200	2650
29101208ВК	6-8 MM DC1 DOUBLE	6–8	1/4-5/16	300	661	650	23	500	1100	29102410BK	8-10MM DC2 DOUBLE	8-10	5/16-3/8	500	1102	1216	43	1200	2650
29101308ВК	6-8 MM DC1 TRIPLE					850	30	500	1100	29103410BK	8-10MM DC2 TRIPLE								
29101110BK	8-10 MM DC1 SINGLE					330	12	500	1100	29101412BK	10-12MM DC2 SINGLE					650	23	1200	2650
29101210BK	8-10 MM DC1 DOUBLE	8-10	5/16-3/8	400	880	650	23	500	1100	29102412BK	10-12MM DC2 DOUBLE	10-12	3/8-1/2	700	1550	1216	43	1200	2650
29101310BK	8-10 MM DC1 TRIPLE					850	30	500	1100	29103412BK	10-12MM DC2 TRIPLE								
29101112BK	10-12 MM DC1 SINGLE					330	12	500	1100	29101414BK	12-14MM DC2 SINGLE					650	23	1200	2650
29101212BK	10-12 MM DC1 DOUBLE	10-12	3/8-7/16	500	1100	650	23	500	1100	29102414BK	12-14MM DC2 DOUBLE	12-14	1/2-9/16	1000	2204	1216	43	1200	2650
29101312BK	10-12 MM DC1 TRIPLE					850	30	500	1100	29103414BK	12-14MM DC2 TRIPLE								
29100010BK	DC1 HANDLE KIT									29101501BK	DC2 HANDLE KIT								
25002323	CLUTCH LABEL KIT									25002323	CLUTCH LABEL KIT								

## DCI & DC2 Rope Clutch Dimensions





#### Notes:

Line entry and exit angle should not exceed 15° from the rope clutch centre line

DCI :Use pan head M6 - I/4" fixings - do not tighten beyond 10 Nm torque

DC2 : Use pan head M8 - 5/16" fixings - do not tighten beyond 22Nm torque

SIZE	LEN MM	L NGTH IN	WIE MM		HEI MM		LINE E	A ENTRY IN	LINE MM	_	_	S WIDTH	FIXINGS MM	LENGTH
D1 SINGLE D1 DOUBLE D1 TRIPLE	126	5	32 57.85 83.7	1 <sup>5</sup> / <sub>16</sub> 2 <sup>5</sup> / <sub>16</sub> 3 <sup>5</sup> / <sub>16</sub>	72	2 <sup>13</sup> / <sub>16</sub>	27	11/8	29	1 3/16	- 26 26	- 1 1	79	3 1/8
D2 SINGLE D2 DOUBLE D2 TRIPLE	156	6 <sup>1</sup> / <sub>8</sub>	38.0 68.5 99	1 <sup>1</sup> / <sub>2</sub> 2 <sup>1</sup> / <sub>16</sub> 3 7/8	88	3 3/8	26	1	32	1 <sup>5</sup> ⁄16	- 30.5 30.5	- 1 <sup>3</sup> / <sub>16</sub> 1 <sup>3</sup> / <sub>16</sub>	107	4 1/4

### Clutch Selection Guide

					BOAT L	ENGTH OVE	RALL				
APPLICATION	M FT	8.8 29	10.1 33	10.7 35	11.3 37	11.9 39	12.5 41	14.6 48	16.8 55	18.9 62	21.5 70
HALYARDS	MAIN										
	GENOA										
	SPINNAKER										
GOOSENECK	REEF LINES										
	OUTHAUL										
	FLATTENER										
POLE/BOOM LIFT	SPIN POLE UPHAUL										
POLE/BOOM LIFT _	SPIN POLE DOWN HAUL										
	HEEL LIFT										
	MAIN BOOM TOPPING LIFT										
FURLING LINES	GENOA										
	MAIN										
SHEETS	MAINSHEET 4:1 PURCHASE										
CONTROL LINES	MAINSHEET CAR (2:1 PURCHASE)										
	GENOA CAR (2:1 PURCHASE)										
	POLE OUTHAUL										
	KICKING STRAP/VANG										
								DC1	ROPE CLUTCH	DC2	ROPE CLUTCH

# **Organisers**

All organisers have space to pass two lines between each sheave

#### Flush fixings Synchro Organiser

- Bushed sheaves with side thrust ball bearings
- Wide rope entry



PART NO	SHE	AVE Ø	NO OF SHEAVES		KING LIMIT	1	ORKING SHEAVE	MAX LII	NE SIZE	LEN	GTH	WEI	GHT		NGS JPPLIED)
	мм	IN		KG	LB	KG	LB	ММ	IN	мм	IN	G	oz	ММ	IN
29916042ВК	60	2 3/8	6	3700	8156	1100	2420	12	1/2	256	10 1/16	602	21.2	M10	3/8
29916060ВК	60	2 3/8	3	2550	5500	1100	2420	12	1/2	256	10 1/16	329	12.9	M10	3/8

#### 40 and 60mm Bushed Sheaves Organiser

- Tough interchangeable acetal or alloy sheaves (40mm only)
- Stackable



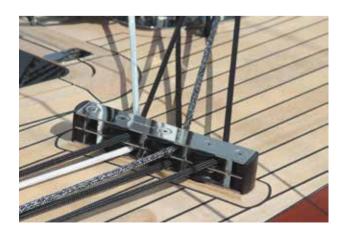
PART NO	SHE	AVE Ø	NO OF SHEAVES		KING LIMIT		ORKING SHEAVE	MAX LII	NE SIZE	LEN	GTH	WEI	GHT	FIXI (NOT IN	NGS LUDED)	SHEAVE	CENTRES	
	мм	IN		KG	LB	KG	LB	ММ	IN	мм	IN	G	oz	мм	IN	мм	IN	
29139122BK	40	1 1/8	2	1005	2215	750	1654	10	3/8	142	5 1/8	123	271	м8	5/16	47	1 1/8	
29139123BK	40	1 1/8	3	1507	3322	750	1654	10	3/8	189	7 3/8	206	454	м8	5/16	47	1 1/8	
29139124BK	40	1 1/8	4	2010	4431	750	1654	10	3/8	236	9 1/3	275	606	м8	5/16	47	1 1/8	
29139125BK	40	1 1/8	5	2512	5537	750	1654	10	3/8	283	11 1/8	352	776	м8	5/16	47	1 1/8	
29139126вк	40	1 1/8	6	3015	6646	750	1654	10	3/8	330	13	425	937	м8	5/16	47	1 1/8	
29139112BK	60	2 3/8	2	2400	5290	1200	2645	14	9/16	231	9 1/8	325	11.46	M10	3/8	72	2 27/32	
29139113BK	60	2 3/8	3	3000	6613	1200	2645	14	9/16	303	12	435	15.34	M10	3/8	72	2 27/32	
29139114BK	60	2 3/8	4	3600	7935	1200	2645	14	9/16	375	14 3/4	551	19.43	M10	3/8	72	2 27/32	
29139115BK	60	2 3/8	5	4200	9258	1200	2645	14	9/16	447	17 5/8	637	22.46	M10	3/8	72	2 27/32	
29139116вк	60	2 3/8	6	4800	10580	1200	2645	14	9/16	519	20 1/2	775	27.33	M10	3/8	72	2 27/32	

## Stainless Steel Bushed Sheaves Organiser

To complement our HTX Stainless Steel Block range, Lewmar have developed a stainless steel organiser to complete the installation.

- Same technical specifications as alloy versions, but with additional aesthetic appeal
- Machined from marine-grade stainless steel

Contact your Lewmar representative to find out more information.



## **Cleats**

Made from state-of-the-art materials developed by the automotive industry and refined for the marine market, Lewmar cleats enhance performance in durability, strength and lubrication.

#### **Features**

- Low line entry load
- High holding load
- Constant tension springs

- Wash-out bearing slots
- Split base fairlead to facilitate continuous line installations

#### Cam Cleats

PART NO	DESCRIPTION	w	LL	LINE	SIZE	FIXING	PITCH	FIXIN	G SIZE	WEI	GHT
		KG	LB	ММ	IN	ММ	IN	ММ	IN	G	oz
29104100BK	SMALL COMPOSITE CLEAT	120	264	2-8	5/64-5/16	27	1 1/16	М4	5/32	17.5	0.6
29104110BK	MEDIUM COMPOSITE CLEAT	180	396	4-12	5/32-1/2	38	1 1/2	М5	3/16	48.5	1.7



#### **Fairlead**



PART NO	DESCRIPTION	LINE	SIZE	WEI	GHT
		мм	IN	G	oz
29104104BK	T0 FIT 29104100	2-8	5/64-5/16	6.0	0.2
29104114BK	T0 FIT 29104110	4-12	5/32-1/2	14.0	0.5

## Feeder Loop



PART NO	DESCRIPTION	LINE	SIZE	WEI	GHT	
		мм	IN	G	oz	
29104115	SMALL	2-8	5/64-5/16	6.0	0.2	
29104116	MEDIUM	4-12	5/32-1/2	10.0	0.35	

## Eye Strap (Pair)



PART NO	DESCRIPTION	LINE	SIZE	FIXING	PITCH	FIXIN	G SIZE	WEI	GHT
		ММ	IN	мм	IN	мм	IN	G	oz
29104103	SMALL	2-8	5/64-5/16	27	1 1/16	М4	5/32	6.0	0.2
29104113	MEDIUM	4-12	5/32-1/2	38	1 1/2	М5	3/16	18.0	0.6

### **Bulls-Eyes**



PART NO	DESCRIPTION	MAX LII	NE SIZE	FIXING	PITCH	FIXIN	SSIZE	WEI	GHT
		ММ	IN	мм	IN	ММ	IN	G	oz
29904117	MEDIUM	12	1/2	25	1	М4	5/32	12.0	0.4
29904118	LARGE	18	3/4	32	1 1/4	М5	3/16	32.0	1.1

#### Swivel Cam Base for 60/80mm Blocks



									i	
DADTNO	14/		LINE	SIZE	l .	ING	FIVINI	C C17E	\A/E1	CLIT
PART NO	W	LL	LINE	SIZE	PII	CH	FIXIN	JOIZE	WEI	UHI
	KG	LB	ММ	IN	ММ	IN	ММ	IN	G	OZ
29904126	300	661	4-10	5/32-7/16	4X19	4x3/4	м5	3/16	302	10.7

### Swivel Small Cam with Bull's Eye



	I					1	- 1	1
PART NO		LINE SIZE		HOLE CENTRES		WEIGHT		
		ММ	IN	ММ	IN	G	OZ	
29904105	SMALL	2-6	5/64-1/4	3 X 27	3 X 1 <sup>1</sup> / <sub>16</sub>	114	4	
29904115	MEDIUM	4-10	5/32-3/8	3 X 27	3 X 1 <sup>1</sup> / <sub>16</sub>	168	5.9	