

8. Hardware



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.

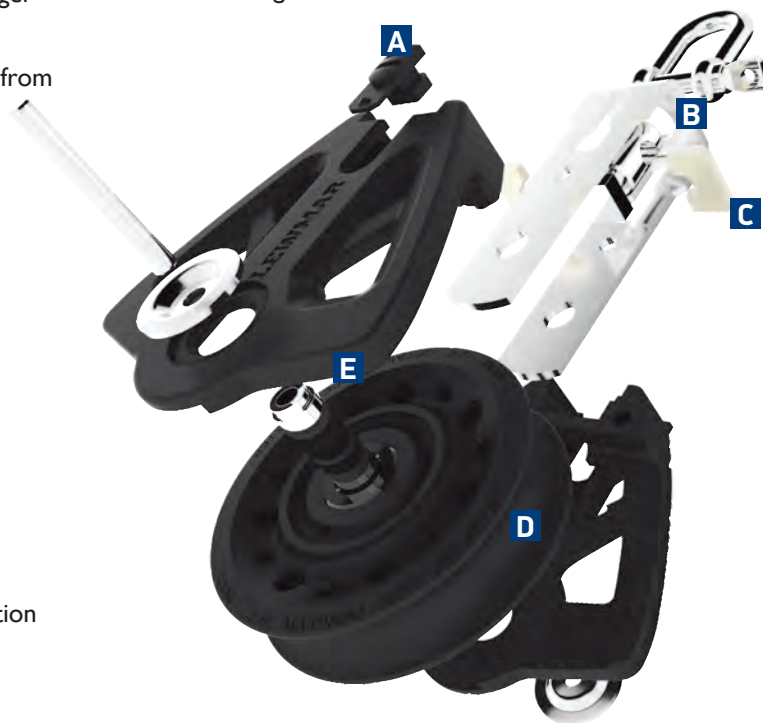
- Stainless steel strap for improved strength and longer service life
- Stiff glass fibre reinforced cheeks to prevent lines from wedging
- Simple switch to change from swivelling to fixed shackle

- **A** Easy to use shackle post lock
- **B** Shackle post – Fits travellers
- **C** Lock mechanism enables 30° float
- **D** Larger sheave diameter – Minimises rope friction
- **E** 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

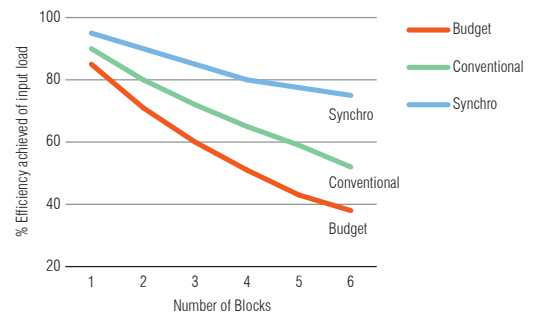
Head can be positioned for use in line or at 90 degrees – or left to rotate freely when in unlocked position. When locked allows 30° “float” on shackle post to improve alignment of block.



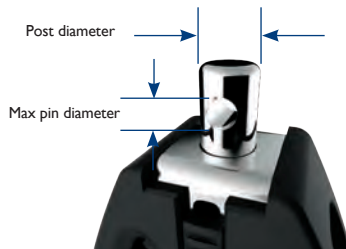
Higher efficiency – for faster sail handling and less rope wear

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 DIAMETER		TO FIT MAX PIN Ø	
	MM	IN	MM	IN
50MM SYNCHRO	7.9	5/16	4	5/32
60MM SYNCHRO	9.4	3/8	5	3/16
72MM SYNCHRO	11.9	15/32	6	1/4
90MM SYNCHRO	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
60MM SYNCHRO	29926040
72MM SYNCHRO	29927240
90MM SYNCHRO	29929040

Cleat Used



	USE CLEAT	WORKING LOAD LIMIT	
		KG	LB
50MM SYNCHRO	29104100BK	120	264
60MM SYNCHRO	29104110BK	180	396
72MM SYNCHRO	29104110BK	180	396

Line Size



	OPTIMUM LINE SIZE		MAX LINE SIZE	
	MM	IN	MM	IN
50MM SYNCHRO	6	1/4	10	3/8
60MM SYNCHRO	8	5/16	10	3/8
72MM SYNCHRO	10	3/8	12	1/2
90MM SYNCHRO	12	1/2	14	9/16

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 320 for more information

For information about block upstand refer to p 315

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Synchro Blocks

Single



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

Triple



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEIGHT	
		KG	LB	G	OZ
29925003BK	50	450	990	226	7.96
29926003BK	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		WEIGHT	
		KG	LB	G	OZ
29925004BK	50	450	990	81	2.85
29926004BK	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		WEIGHT	
		KG	LB	G	OZ
29925005BK	50	450	990	164	5.77
29926005BK	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
29925009BK	50	450	990	123	4.30

* Block WLL, cleat WLL shown p297

Triple, Becket & Cam



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

* Block WLL, cleat WLL shown p297

Single Fiddle



PART NO	SHEAVE Ø	WORKING LOAD LIMIT		WEIGHT	
		KG	LB	G	OZ
29925031BK	50	450	990	94	3.31
29926031BK	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 Ø	WORKING LOAD LIMIT		WEIGHT	
		KG	LB	G	OZ
29925034BK	50	450	990	98	3.45
29926034BK	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*		WEIGHT	
		KG	LB	G	OZ
29925037BK	50	450	990	139	4.89
29926037BK	60	800	1760	221	7.78
29927237BK	72	1100	2420	339	11.93

* Block WLL, cleat WLL shown p.297

Single Fiddle, Becket & Cam



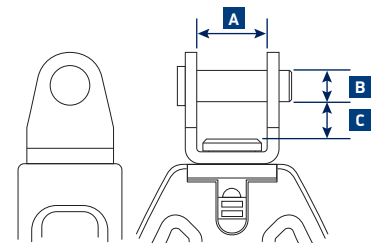
PART NO	SHEAVE Ø	WORKING LOAD LIMIT*		WEIGHT	
		KG	LB	G	OZ
29925039BK	50	450	990	145	5.10
29926039BK	60	800	1760	234	8.24
29927239BK	72	1100	2420	356	12.53
29929039BK	90	2000	4400	879	27.12

* Block WLL, cleat WLL shown p.297

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)



PART NO	SHEAVE DIAMETER	WORKING LOAD LIMIT		WEIGHT		HEAD DETAILS					
						A		B		C	
						WIDTH	PIN	SPACE TO PIN	MM	IN	
29925021BK	50	450	990	73	2.57	13	1/2	5	3/16	8.2	5/16
29926021BK	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	29/32	10	25/64	13.9	17/32

