

BLOCKS



Applications

Blocks are used in lifting systems, to change load direction or to drag a load. Blocks and the wire ropes they contain make a connection between a load and a lifting device.

Range

Green Pin® offers a wide range of blocks. Blocks are available for head loads ranging from 2 t up to 30 t. Other types of blocks can be offered upon special request.

Design

There are different types of blocks with specific designs to suit particular purposes. All types are fitted with conical roller bearings. These can be used for applications with different frequency of use and line speeds. Snatch blocks can be opened up to fit the wire rope easily. There is no need to thread the wire rope through the block.

All types are generally marked as follows:

- Working Load Limit
 - manufacturer's symbol
 - wire rope diameter in mm and inches
 - serial number
 - CE conformity code
- e.g. 8 t
 - e.g. GP
 - e.g. 20 - 22 mm and $\frac{3}{4}$ - $\frac{7}{8}$ inch
 - e.g. 1234567
 - CE

Finish

Green Pin® Blocks are painted.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements at the time of order.

Instructions for use

Blocks should be inspected before use to ensure that:

- all markings are legible;
- a block with the correct WLL has been selected;
- the WLL applies to static loads only, the possible occurrence of shock loading must be taken into account when selecting a block;
- the block may never be side loaded but may only be used for in-line use;
- always make sure that the hook, eye or shackle of the block is supporting the load correctly;
- the pin, nut, cotter pin, or any other locking system cannot vibrate out of position;
- the sheaves are functional and rotate easily;
- blocks are free from nicks, gouges and cracks;
- blocks may not be heat treated as this may affect their WLL;
- never modify, repair or reshape a block by machining, welding, heating or bending as this may affect the WLL.

Blocks must be regularly inspected in accordance with the safety standards and regulations given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure. Inspection should take place at least every six months and more frequently when the blocks are used in severe operating conditions.

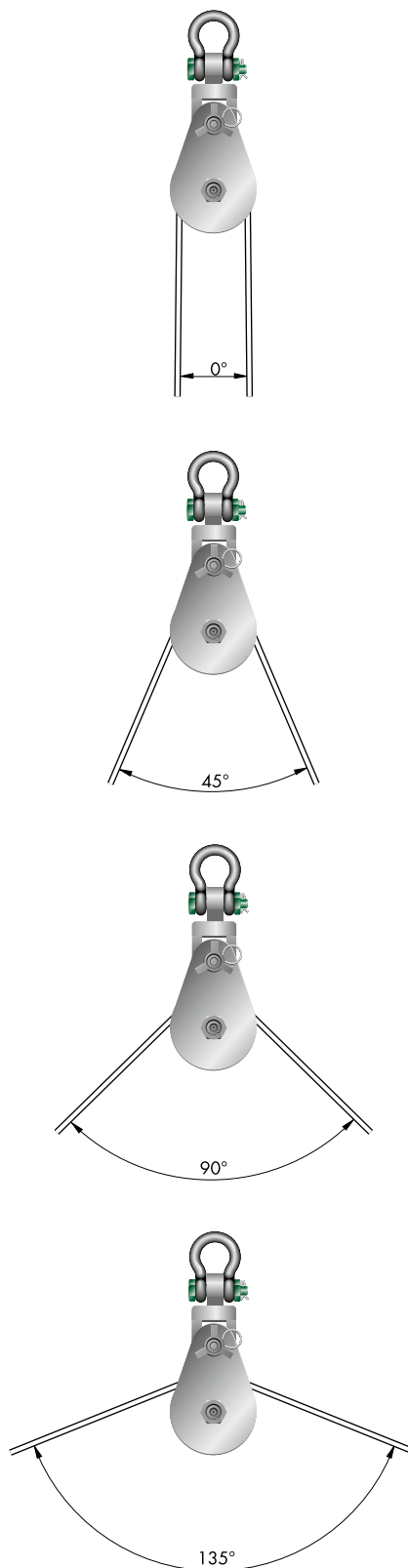
Loads on blocks

The WLLs of our blocks are the maximum loads to be applied to the blocks and their connecting fittings. The load on a sheave or block varies with the angle between the lead and load line. See figure 1. When the two lines are parallel, 1 t on the lead line results in a load of 2 t on the fitting. As the working angle between the lines increases, the load on the fitting is reduced by the angle factor as per table 1. All loads shown ignore frictional losses in the lifting system.

Table 1

working angle	angle factor
0°	2
10°	1.99
20°	1.97
30°	1.93
40°	1.87
45°	1.84
50°	1.81
60°	1.73
70°	1.64
80°	1.53
90°	1.41
100°	1.29
110°	1.15
120°	1
130°	0.84
135°	0.76
140°	0.68
150°	0.52
160°	0.35
170°	0.17
180°	0

Figure 1

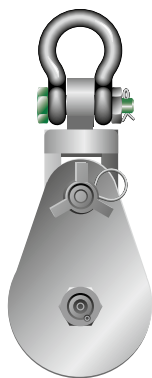




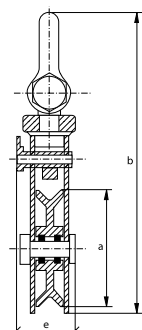
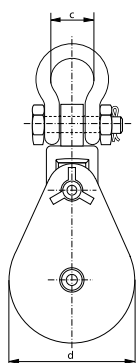
Green Pin® Snatch Block S

Snatch block type 601S with Green Pin® Shackle attached

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additional
product
details



P-6951



- **Material:** carbon steel, fitted with conical roller bearings
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted
- **Certification:** 2.1 2.2 MTC[®] CE IIA
- **Article code:** scan QR code to see article codes
- **Note:** Working Load Limit is on the headfitting

working load limit	diameter wire rope	diameter outside sheave	length	width	width outside	thickness	weight each
t	mm	a mm	b mm	c mm	d mm	e mm	kg
2	7 - 9	75	291	43	82	87	3.87
4	10 - 12	115	363	58	120	89	6.36
4	12 - 14	150	417	58	160	89	8.39
8	20 - 22	150	478	68	160	119	14.1
8	14 - 16	150	478	68	160	119	14.3
12	20 - 22	150	551	83	160	119	20
12	14 - 16	150	551	83	160	119	20
15	24 - 26	150	585	92	160	138	24
4	10 - 12	200	478	58	210	119	11
8	20 - 22	200	527	68	210	119	18
12	20 - 22	200	580	83	210	125	28
12	14 - 16	200	580	83	210	125	27
15	24 - 26	200	646	92	210	142	30
8	20 - 22	250	581	68	260	104	26
8	14 - 16	250	581	68	260	104	26
12	20 - 22	250	679	83	260	125	35
15	24 - 26	250	705	92	260	146	42
8	20 - 22	300	646	68	310	106	31
12	20 - 22	300	748	83	310	146	35
15	24 - 26	300	771	92	310	142	33
8	20 - 22	350	691	68	360	119	31
12	20 - 22	350	773	83	360	145	35
15	24 - 26	350	798	92	365	171	63
22	28 - 32	350	950	126	365	180	94
8	20 - 22	400	756	68	415	119	35
12	20 - 22	400	822	83	415	170	67
15	24 - 26	400	848	92	415	170	39
22	28 - 32	405	1007	126	415	180	139
30	32 - 38	405	1076	138	415	210	124
8	20 - 22	450	817	68	465	119	42
12	20 - 22	450	877	83	465	170	75
15	24 - 26	450	898	92	465	170	44.5
22	28 - 32	450	1057	126	465	180	154
30	28 - 32	450	1101	138	465	210	218
32	28 - 35	399	1361	138	409	193	140
32	28 - 38	450	1444	138	470	193	161
32	28 - 38	495	1511	138	511	193	170
36	28 - 38	495	1575	160	511	203	228
32	28 - 32	594	1669	138	610	193	170
54	38 - 51	594	1861	180	610	269	348
75	44 - 51	594	2105	190	610	266	391
75	44 - 57	749	2442	190	770	266	636
100	64 - 67	800	2681	238	820	260	838
125	70 - 76	889	2898	275	919	260	1158

CAD