

Loads On Blocks

All working load limits of our blocks are the maximum loads on 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, 1000 kg on the lead line results in a load of 2000 kg 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.

working angle	angle factor
0°	2.00
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°	1.00
130°	0.84
135°	0.76
140°	0.68
150°	0.52
160°	0.35
170°	0.17
180°	0

Table 1

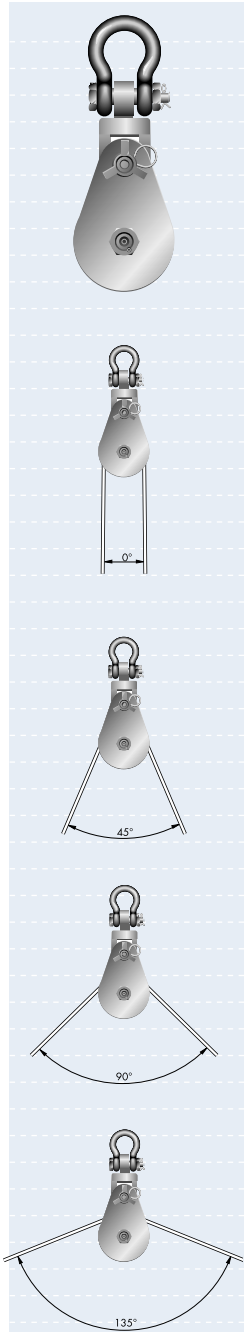


Figure 1