

Table No. 14.—Shackle-iron.

TABLE OF SAFE-WORKING LOADS FOR SHACKLE-IRON.

(The safe-working load for any shackle is the safe-working load of the iron, or of the pin, whichever is less. (See Table No. 15 and Diagrams Nos. 20 and 21.) The safe-working load for the iron of a shackle having an intermediate gap may be obtained from Table No. 16 or from Diagrams No. 20 and 21.)

Diameter of Shackle-iron, in Inches.	Width of Gap, in Inches.	Working-load in Tons, &c.	Working-load, in Pounds.	Width of Gap, in Inches.	Working-load, in Tons, &c.	Working-load in Pounds.
$\frac{3}{8}$	$\frac{7}{16}$	T. cwt. qr. lb.		$\frac{7}{8}$	T. cwt. qr. lb.	
		0 13 3 13	1,553		0 6 3 20	776
$\frac{7}{16}$	$\frac{9}{16}$	0 17 0 14	1,918	$1\frac{1}{8}$	0 8 2 7	959
		1 3 0 1	2,577		0 11 2 0	1,288
$\frac{1}{2}$	$\frac{11}{16}$	1 9 3 3	3,335	$1\frac{3}{8}$	0 14 3 16	1,668
		1 17 1 22	4,194		0 18 2 25	2,097
$\frac{9}{16}$	$\frac{13}{16}$	2 2 2 25	4,785	$1\frac{5}{8}$	1 1 1 12	2,392
		2 11 3 2	5,798		1 5 3 15	2,899
$\frac{5}{8}$	$1\frac{1}{8}$	3 1 2 22	6,910	2	1 10 3 11	3,455
		3 12 2 3	8,123	2 $\frac{1}{8}$	1 16 1 2	4,062
$\frac{11}{16}$	$1\frac{3}{16}$	3 19 3 7	8,939	2 $\frac{3}{8}$	1 19 3 18	4,470
		4 12 0 3	10,307	2 $\frac{5}{8}$	2 6 0 1	5,153
$\frac{3}{4}$	$1\frac{5}{16}$	5 19 0 13	13,341	2 $\frac{7}{8}$	2 19 2 6	6,670
		7 3 3 4	16,104	3 $\frac{1}{8}$	3 11 3 16	8,052
$1\frac{1}{8}$	$1\frac{7}{16}$	8 17 0 23	19,847	3 $\frac{3}{8}$	4 8 2 11	9,923
		10 7 0 6	23,190	3 $\frac{5}{8}$	5 3 2 3	11,595
$1\frac{1}{4}$	$1\frac{9}{16}$	12 6 3 5	27,641	4	6 3 1 17	13,821
		14 1 3 8	31,564	4 $\frac{1}{8}$	7 0 3 18	15,782
$1\frac{3}{8}$	$1\frac{11}{16}$	16 7 3 16	36,724	4 $\frac{3}{8}$	8 3 3 22	18,362
		18 8 0 11	41,227	5	9 4 0 5	20,613
$1\frac{1}{2}$	$1\frac{13}{16}$	21 0 1 27	47,095	5 $\frac{1}{8}$	10 10 1 0	23,548
		23 5 3 13	52,177	5 $\frac{3}{8}$	11 12 3 21	26,089
$1\frac{3}{4}$	$1\frac{15}{16}$	26 4 2 10	58,754	5 $\frac{5}{8}$	13 2 1 5	29,377
		28 15 0 17	64,417	6 $\frac{1}{8}$	14 7 2 8	32,208

Table No. 15.—Shackle-pins.

TABLE OF SAFE-WORKING LOADS FOR THE PINS OF SHACKLES.

(The safe-working load for any shackle is the safe-working load of the pin, or of the iron of the shackle, whichever is less. (See Table No. 14 and Diagrams Nos. 20 and 21.) The safe-working load for a pin in a shackle of an intermediate gap may be obtained from Table 16 or from Diagrams 20 and 21.)

Diameter of Pin, in Inches.	Width of Gap equal to Diameter of Pin.			Width of Gap twice the Diameter of Pin.		
	Width of Gap, in Inches.	Working-load, in Tons, &c.	Working-load, in Pounds.	Width of Gap, in Inches.	Working-load, in Tons, &c.	Working-load, in Pounds.
$\frac{3}{8}$	$\frac{3}{8}$	T. cwt. qr. lb.		$\frac{3}{4}$	T. cwt. qr. lb.	
		0 9 1 11	1,047		0 4 2 20	524
$\frac{7}{16}$	$\frac{7}{16}$	0 12 2 26	1,426	1	0 6 1 13	713
		0 16 2 16	1,864		0 8 1 8	932
$\frac{1}{2}$	$\frac{1}{2}$	1 1 0 6	2,358	$1\frac{1}{8}$	0 10 2 3	1,179
		1 6 0 0	2,912		0 13 0 0	1,456
$\frac{9}{16}$	$\frac{9}{16}$	1 11 1 24	3,524	$1\frac{1}{4}$	0 15 2 26	1,762
		1 17 1 22	4,194		0 18 2 25	2,097
$\frac{5}{8}$	$\frac{5}{8}$	2 3 3 22	4,922	$1\frac{3}{8}$	1 1 3 25	2,461
		2 10 3 24	5,708		1 5 1 26	2,854
$\frac{11}{16}$	$\frac{11}{16}$	2 18 2 1	6,553	$1\frac{5}{8}$	1 9 1 0	3,276
		3 6 2 8	7,456		2	1 12 1 4
$1$	$1$	4 4 1 0	9,436	2 $\frac{1}{8}$	2 2 0 14	4,718
		5 4 0 2	11,650	2 $\frac{3}{8}$	2 12 0 1	5,825
$1\frac{1}{8}$	$1\frac{1}{8}$	6 5 3 12	14,096	2 $\frac{5}{8}$	3 2 3 20	7,048
		7 9 3 4	16,776	3	3 14 3 16	8,388
$1\frac{1}{4}$	$1\frac{1}{4}$	8 15 3 4	19,688	3 $\frac{1}{8}$	4 7 3 16	9,844
		10 3 3 13	22,833	3 $\frac{3}{8}$	5 1 3 20	11,416
$1\frac{3}{8}$	$1\frac{3}{8}$	11 14 0 4	26,212	3 $\frac{5}{8}$	5 17 0 2	13,106
		13 6 1 4	29,824	4	6 13 0 16	14,912
$1\frac{1}{2}$	$1\frac{1}{2}$	15 0 2 12	33,668	4 $\frac{1}{8}$	7 10 1 6	16,834
		16 17 0 2	37,746	4 $\frac{3}{8}$	8 8 2 1	18,873
$1\frac{3}{4}$	$1\frac{3}{4}$	18 15 2 0	42,056	4 $\frac{5}{8}$	9 7 3 0	21,023
		20 16 0 8	46,600	5	10 8 0 4	23,300