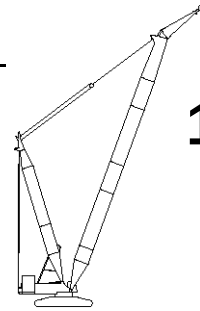


Liftcrane Boom Extended Upper Point Capacities

**Boom No. 55-79A with 100 ft Mast No. 56 and
25.0 ft Extended Upper Boom Point
528,000 lb Crane Counterweight
320,000 lb Carbody Counterweight
360 Degree Rating**

**Meets
ANSI B30.5
Requirements**



18000

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point (upper sheave) capacity for liftcrane service with single part whip line is 30,000 lb, or 60,000 lb with two part line. In all cases, upper boom point capacities cannot exceed those listed for extended upper boom point (lower sheave) capacity.

Weight of all load blocks, hooks, weight balls, slings, hoist lines, etc., beneath upper boom point sheaves, is considered part of extended upper boom point load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with mast up. Refer to boom rigging **No. A05379**, Wire Rope Specification chart **No. 8514-E or 8514-F** and Counterweight Arrangement chart **No. 8577-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8517-C**.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

BOOM POINT ELEVATION: Extended upper boom point elevation is vertical distance from ground level to centerline of extended upper boom point (lower sheave) shaft.

MACHINE EQUIPMENT: Machine equipped with 38 ft 9 in. crawlers, 60 in. treads, 30 ft live mast, 100 ft mast, 16 part boom hoist reeving, boom support straps, 528,000 lb crane counterweight and 320,000 lb carbody counterweight.

Maximum Boom Length Lifted Unassisted	
Over End of Blocked Crawlers	Over Side of Crawlers
Boom Length	Boom Length
400 ft	380 ft
Load block, hook and weight ball on ground at start.	

Lower boom point must be removed when extended upper boom point is attached.

WARNING: This chart requires boom top modification No. A16449.

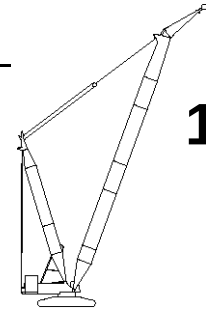
Boom Catwalks Deduct

Deduct 800 lbs from capacities
when boom catwalks are attached.

Liftcrane Boom Extended Upper Point Capacities

Boom No. 55-79A with 100 ft Mast No. 56 and
25.0 ft Extended Upper Boom Point
528,000 lb Crane Counterweight
320,000 lb Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

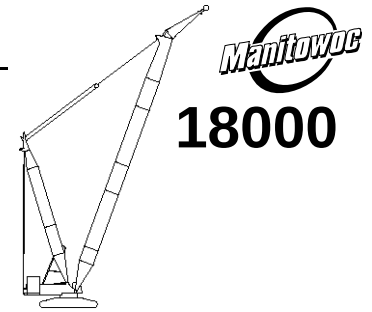


18000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200 ft Boom			
50	82.0	230.4	292,800 *
55	80.7	229.4	292,800 *
60	79.4	228.1	292,800 *
65	78.1	226.8	292,800 *
70	76.8	225.4	292,800 *
75	75.4	223.8	292,800 *
80	74.1	222.1	292,800 *
85	72.7	220.2	292,800 *
90	71.3	218.2	292,800 *
95	69.9	216.1	284,700
100	68.5	213.8	265,300
105	67.1	211.4	248,000
110	65.7	208.8	232,400
115	64.2	206.1	218,500
120	62.7	203.2	205,800
125	61.2	200.1	194,300
130	59.7	196.8	183,700
135	58.1	193.4	174,100
140	56.5	189.7	165,100
145	54.9	185.8	156,900
150	53.2	181.6	149,300
155	51.5	177.3	142,100
160	49.8	172.6	135,500
165	48.0	167.6	129,300
170	46.1	162.4	123,500
175	44.2	156.7	118,000
180	42.2	150.6	112,900
185	40.1	144.1	108,000
190	37.8	137.1	103,400
195	35.5	129.4	99,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
220 ft Boom			
50	82.7	250.8	292,800 *
55	81.5	249.8	292,800 *
60	80.3	248.7	292,800 *
65	79.1	247.5	292,800 *
70	77.9	246.1	292,800 *
75	76.7	244.7	292,800 *
80	75.4	243.1	292,800 *
85	74.2	241.5	292,800 *
90	72.9	239.7	292,800 *
95	71.7	237.7	283,600
100	70.4	235.7	264,100
105	69.1	233.5	246,800
110	67.8	231.2	231,200
115	66.5	228.7	217,200
120	65.2	226.1	204,600
125	63.8	223.4	193,000
130	62.5	220.5	182,400
135	61.1	217.4	172,800
140	59.7	214.1	163,800
145	58.3	210.7	155,600
150	56.8	207.1	147,900
155	55.3	203.3	140,800
160	53.8	199.3	134,200
165	52.3	195.1	128,000
170	50.7	190.6	122,200
175	49.1	185.9	116,700
180	47.4	180.9	111,600
185	45.7	175.5	106,700
190	43.9	169.9	102,100
195	42.1	163.8	97,800
200	40.2	157.4	93,700
205	38.2	150.5	89,800
210	36.1	143.0	86,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
240 ft Boom			
55	82.2	270.2	292,800 *
60	81.1	269.1	292,800 *
65	79.9	268.0	292,800 *
70	78.8	266.8	292,800 *
75	77.7	265.5	292,800 *
80	76.6	264.0	292,800 *
85	75.4	262.5	292,800 *
90	74.3	260.9	292,800 *
95	73.1	259.1	283,200
100	72.0	257.2	263,600
105	70.8	255.2	246,300
110	69.6	253.1	230,700
115	68.4	250.9	216,700
120	67.2	248.5	204,000
125	66.0	246.1	192,400
130	64.8	243.4	181,800
135	63.5	240.7	172,200
140	62.3	237.7	163,200
145	61.0	234.7	155,000
150	59.7	231.5	147,300
155	58.4	228.1	140,200
160	57.1	224.6	133,600
165	55.7	220.8	127,400
170	54.3	216.9	121,600
175	52.9	212.8	116,100
180	51.5	208.5	111,000
185	50.0	203.9	106,100
190	48.5	199.1	101,600
195	47.0	194.1	97,200
200	45.4	188.7	93,100
205	43.7	183.1	89,300
210	42.0	177.1	85,500
215	40.3	170.7	82,000
220	38.4	163.9	78,700
225	36.5	156.5	75,400



Liftcrane Boom Extended Upper Point Capacities

**Boom No. 55-79A with 100 ft Mast No. 56 and
25.0 ft Extended Upper Boom Point
528,000 lb Crane Counterweight
320,000 lb Carbody Counterweight
360 Degree Rating**

**Meets
ANSI B30.5
Requirements**

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
260 ft Boom			
55	82.7	290.5	292,800 *
60	81.7	289.5	292,800 *
65	80.7	288.5	292,800 *
70	79.6	287.4	292,800 *
75	78.6	286.1	292,800 *
80	77.5	284.8	292,800 *
85	76.5	283.4	292,800 *
90	75.4	281.9	289,200 *
95	74.4	280.3	275,700 *
100	73.3	278.5	262,300
105	72.2	276.7	244,800
110	71.1	274.8	229,200
115	70.1	272.7	215,200
120	69.0	270.5	202,500
125	67.8	268.3	190,900
130	66.7	265.9	180,300
135	65.6	263.4	170,600
140	64.4	260.7	161,600
145	63.3	258.0	153,400
150	62.1	255.0	145,700
155	60.9	252.0	138,600
160	59.7	248.8	131,900
165	58.5	245.5	125,700
170	57.3	242.0	119,900
175	56.0	238.3	114,500
180	54.8	234.5	109,300
185	53.5	230.5	104,500
190	52.2	226.3	99,900
195	50.8	221.9	95,600
200	49.4	217.2	91,500
205	48.0	212.4	87,600
210	46.6	207.3	83,900
215	45.1	201.9	80,400
220	43.6	196.2	77,100
225	42.0	190.3	73,900
230	40.4	183.9	70,800
235	38.7	177.2	67,900
240	36.9	170.1	65,000
245	35.1	162.4	62,300

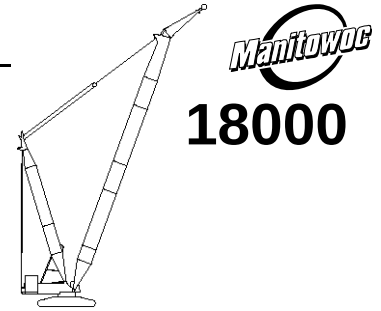
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
280 ft Boom			
60	82.2	309.9	292,800 *
65	81.3	308.9	292,800 *
70	80.3	307.9	292,800 *
75	79.4	306.7	292,800 *
80	78.4	305.5	292,800 *
85	77.4	304.2	286,300 *
90	76.4	302.7	272,300 *
95	75.4	301.2	259,500 *
100	74.5	299.6	248,000 *
105	73.5	298.0	237,400 *
110	72.5	296.2	227,600 *
115	71.4	294.3	214,300
120	70.4	292.3	201,600
125	69.4	290.2	190,000
130	68.4	288.0	179,400
135	67.3	285.6	169,600
140	66.3	283.2	160,700
145	65.2	280.7	152,400
150	64.2	278.0	144,700
155	63.1	275.2	137,600
160	62.0	272.3	131,000
165	60.9	269.3	124,800
170	59.8	266.1	118,900
175	58.6	262.8	113,500
180	57.5	259.4	108,400
185	56.3	255.8	103,500
190	55.1	252.0	99,000
195	53.9	248.1	94,600
200	52.7	244.0	90,600
205	51.5	239.7	86,700
210	50.2	235.2	83,000
215	48.9	230.5	79,500
220	47.6	225.6	76,100
225	46.2	220.5	72,900
230	44.9	215.1	69,900
235	43.4	209.4	67,000
240	42.0	203.5	64,200
245	40.4	197.2	61,500
250	38.9	190.6	58,900
255	37.2	183.5	56,400
260	35.5	176.0	54,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
300 ft Boom			
60	82.7	330.2	292,800 *
65	81.8	329.3	292,800 *
70	80.9	328.3	292,800 *
75	80.0	327.2	292,800 *
80	79.1	326.1	284,700 *
85	78.2	324.8	269,600 *
90	77.3	323.5	256,100 *
95	76.4	322.1	243,900 *
100	75.4	320.6	232,900 *
105	74.5	319.0	222,800 *
110	73.6	317.4	213,500 *
115	72.6	315.6	205,000 *
120	71.7	313.7	197,000 *
125	70.8	311.8	188,300
130	69.8	309.7	177,700
135	68.8	307.6	167,900
140	67.9	305.4	158,900
145	66.9	303.0	150,700
150	65.9	300.6	143,000
155	64.9	298.0	135,800
160	63.9	295.3	129,200
165	62.9	292.5	123,000
170	61.9	289.6	117,100
175	60.8	286.6	111,700
180	59.8	283.5	106,500
185	58.7	280.2	101,700
190	57.6	276.8	97,100
195	56.6	273.2	92,800
200	55.5	269.5	88,700
205	54.3	265.6	84,800
210	53.2	261.6	81,100
215	52.0	257.5	77,600
220	50.9	253.1	74,300
225	49.7	248.6	71,100
230	48.5	243.8	68,100
235	47.2	238.9	65,100
240	45.9	233.7	62,400
245	44.6	228.3	59,700
250	43.3	222.6	57,100
255	41.9	216.7	54,700
260	40.5	210.4	52,300
265	39.0	203.9	50,000
270	37.5	196.9	47,800
275	36.0	189.6	45,700

Liftcrane Boom Extended Upper Point Capacities

Boom No. 55-79A with 100 ft Mast No. 56 and
25.0 ft Extended Upper Boom Point
528,000 lb Crane Counterweight
320,000 lb Carbody Counterweight
360 Degree Rating

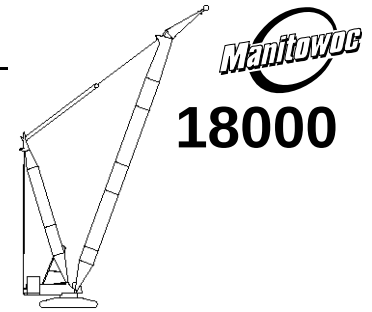
Meets
ANSI B30.5
Requirements



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
320 ft Boom			
65	82.3	349.6	292,800 *
70	81.5	348.6	291,900 *
75	80.6	347.6	286,700 *
80	79.8	346.6	270,100 *
85	78.9	345.4	255,500 *
90	78.0	344.2	242,400 *
95	77.2	342.9	230,600 *
100	76.3	341.5	220,000 *
105	75.5	340.0	210,300 *
110	74.6	338.4	201,400 *
115	73.7	336.8	193,200 *
120	72.8	335.0	185,700 *
125	71.9	333.2	178,600 *
130	71.0	331.3	172,000 *
135	70.1	329.3	165,800 *
140	69.2	327.2	157,800 *
145	68.3	325.0	149,500 *
150	67.4	322.7	141,800 *
155	66.5	320.4	134,600 *
160	65.6	317.9	128,000 *
165	64.6	315.3	121,700 *
170	63.7	312.6	115,900 *
175	62.7	309.8	110,500 *
180	61.7	306.9	105,300 *
185	60.8	303.9	100,500 *
190	59.8	300.8	95,900 *
195	58.8	297.5	91,600 *
200	57.8	294.1	87,500 *
205	56.8	290.6	83,600 *
210	55.7	287.0	79,900 *
215	54.7	283.2	76,400 *
220	53.6	279.2	73,100 *
225	52.5	275.2	69,900 *
230	51.5	270.9	66,800 *
235	50.3	266.5	63,900 *
240	49.2	261.9	61,200 *
245	48.1	257.1	58,500 *
250	46.9	252.1	55,900 *
255	45.7	246.9	53,500 *
260	44.4	241.5	51,100 *
265	43.2	235.8	48,800 *
270	41.9	229.9	46,700 *
275	40.6	223.7	44,500 *
280	39.2	217.2	42,500 *
285	37.8	210.3	40,500 *
290	36.3	203.1	38,600 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
340 ft Boom			
65	82.7	369.9	254,100 *
70	81.9	369.0	253,100 *
75	81.1	368.0	252,100 *
80	80.3	367.0	251,200 *
85	79.5	365.9	242,000 *
90	78.7	364.8	229,200 *
95	77.9	363.5	217,800 *
100	77.1	362.2	207,500 *
105	76.3	360.8	198,100 *
110	75.5	359.4	189,500 *
115	74.6	357.8	181,500 *
120	73.8	356.2	174,200 *
125	73.0	354.5	167,400 *
130	72.1	352.7	161,100 *
135	71.3	350.8	155,200 *
140	70.4	348.8	149,600 *
145	69.6	346.8	144,400 *
150	68.7	344.7	139,400 *
155	67.9	342.5	132,800 *
160	67.0	340.1	126,100 *
165	66.1	337.7	119,900 *
170	65.2	335.2	114,000 *
175	64.4	332.6	108,500 *
180	63.5	329.9	103,400 *
185	62.6	327.1	98,500 *
190	61.7	324.2	94,000 *
195	60.7	321.2	89,600 *
200	59.8	318.1	85,500 *
205	58.9	314.9	81,700 *
210	57.9	311.5	78,000 *
215	57.0	308.0	74,500 *
220	56.0	304.4	71,100 *
225	55.0	300.7	67,900 *
230	54.0	296.8	64,900 *
235	53.0	292.8	62,000 *
240	52.0	288.7	59,200 *
245	50.9	284.3	56,500 *
250	49.9	279.9	54,000 *
255	48.8	275.2	51,500 *
260	47.7	270.4	49,200 *
265	46.6	265.4	46,900 *
270	45.4	260.1	44,700 *
275	44.3	254.7	42,600 *
280	43.1	249.0	40,600 *
285	41.9	243.1	38,600 *
290	40.6	237.0	36,700 *
295	39.3	230.5	34,900 *
300	38.0	223.7	33,100 *
305	36.6	216.6	31,000 *
310	35.2	209.1	28,900 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
360 ft Boom			
70	82.4	389.3	220,900 *
75	81.6	388.4	219,800 *
80	80.8	387.4	218,700 *
85	80.1	386.4	217,700 *
90	79.3	385.3	213,300 *
95	78.6	384.1	203,200 *
100	77.8	382.9	194,000 *
105	77.0	381.6	185,600 *
110	76.2	380.2	178,000 *
115	75.5	378.7	170,900 *
120	74.7	377.2	164,300 *
125	73.9	375.6	158,200 *
130	73.1	373.9	152,600 *
135	72.3	372.1	147,200 *
140	71.5	370.3	142,200 *
145	70.7	368.4	137,300 *
150	69.9	366.4	132,500 *
155	69.1	364.3	128,100 *
160	68.3	362.1	123,800 *
165	67.5	359.9	118,100 *
170	66.6	357.5	112,200 *
175	65.8	355.1	106,700 *
180	65.0	352.6	101,600 *
185	64.1	350.0	96,700 *
190	63.3	347.2	92,100 *
195	62.4	344.5	87,800 *
200	61.6	341.5	83,700 *
205	60.7	338.5	79,800 *
210	59.8	335.4	76,100 *
215	58.9	332.2	72,600 *
220	58.0	328.9	69,200 *
225	57.1	325.4	66,100 *
230	56.2	321.9	63,000 *
235	55.3	318.2	60,100 *
240	54.3	314.4	57,300 *
245	53.4	310.4	54,700 *
250	52.4	306.4	52,100 *
255	51.4	302.1	49,700 *
260	50.4	297.7	47,300 *
265	49.4	293.2	45,000 *
270	48.4	288.5	42,900 *
275	47.4	283.7	40,800 *
280	46.3	278.6	38,700 *
285	45.2	273.4	36,800 *
290	44.1	267.9	34,900 *
295	43.0	262.2	32,900 *
300	41.8	256.4	30,700 *
305	40.7	250.2	28,600 *
310	39.4	243.8	26,600 *
315	38.2	237.1	24,600 *
320	36.9	230.0	22,700 *
325	35.6	222.7	20,800 *



Liftcrane Boom Extended Upper Point Capacities

**Boom No. 55-79A with 100 ft Mast No. 56 and
25.0 ft Extended Upper Boom Point
528,000 lb Crane Counterweight
320,000 lb Carbody Counterweight
360 Degree Rating**

**Meets
ANSI B30.5
Requirements**

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
380 ft Boom			
70	82.8	409.5	192,700 *
75	82.0	408.7	191,000 *
80	81.3	407.8	190,900 *
85	80.6	406.8	190,100 *
90	79.9	405.8	189,200 *
95	79.1	404.6	188,400 *
100	78.4	403.5	185,500 *
105	77.7	402.2	177,000 *
110	76.9	400.9	169,300 *
115	76.2	399.5	162,200 *
120	75.5	398.1	155,700 *
125	74.7	396.6	149,600 *
130	74.0	395.0	143,900 *
135	73.2	393.3	138,700 *
140	72.5	391.6	133,500 *
145	71.7	389.7	128,600 *
150	71.0	387.9	124,000 *
155	70.2	385.9	119,700 *
160	69.4	383.9	115,500 *
165	68.7	381.7	111,500 *
170	67.9	379.5	107,800 *
175	67.1	377.2	104,100 *
180	66.3	374.9	99,600 *
185	65.5	372.4	94,700 *
190	64.7	369.9	90,100 *
195	63.9	367.3	85,800 *
200	63.1	364.6	81,700 *
205	62.3	361.7	77,800 *
210	61.5	358.9	74,100 *
215	60.7	355.9	70,600 *
220	59.8	352.7	67,200 *
225	59.0	349.5	64,000 *
230	58.1	346.2	61,000 *
235	57.3	342.8	58,100 *
240	56.4	339.3	55,300 *
245	55.5	335.7	52,600 *
250	54.6	331.9	50,100 *
255	53.7	328.0	47,600 *
260	52.8	324.0	45,300 *
265	51.9	319.9	43,000 *
270	51.0	315.6	40,800 *
275	50.0	311.1	38,700 *
280	49.1	306.6	36,700 *
285	48.1	301.8	34,800 *
290	47.1	296.9	32,500 *
295	46.1	291.9	30,300 *
300	45.0	286.6	28,200 *
305	44.0	281.1	26,100 *
310	42.9	275.5	24,000 *
315	41.8	269.6	22,100 *
320	40.7	263.5	20,200 *
325	39.5	257.1	18,300 *
330	38.4	250.4	16,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
400 ft Boom			
75	82.4	429.0	168,700 *
80	81.7	428.1	167,800 *
85	81.0	427.2	166,900 *
90	80.3	426.2	166,100 *
95	79.7	425.1	165,300 *
100	79.0	424.0	164,500 *
105	78.3	422.8	163,700 *
110	77.6	421.6	162,200 *
115	76.9	420.3	155,100 *
120	76.2	418.9	148,500 *
125	75.5	417.4	142,600 *
130	74.8	415.9	136,700 *
135	74.0	414.4	131,300 *
140	73.3	412.7	126,200 *
145	72.6	411.0	121,400 *
150	71.9	409.2	116,800 *
155	71.2	407.3	112,500 *
160	70.5	405.4	108,500 *
165	69.7	403.4	104,600 *
170	69.0	401.3	100,900 *
175	68.3	399.2	97,400 *
180	67.5	397.0	94,000 *
185	66.8	394.6	90,800 *
190	66.0	392.2	87,700 *
195	65.3	389.8	84,200 *
200	64.5	387.2	80,100 *
205	63.7	384.6	76,200 *
210	63.0	381.9	72,500 *
215	62.2	379.1	69,000 *
220	61.4	376.2	65,700 *
225	60.6	373.2	62,500 *
230	59.8	370.1	59,400 *
235	59.0	366.9	56,500 *
240	58.2	363.6	53,700 *
245	57.4	360.2	51,100 *
250	56.6	356.7	48,500 *
255	55.7	353.1	46,000 *
260	54.9	349.4	43,700 *
265	54.0	345.6	41,400 *
270	53.2	341.6	39,300 *
275	52.3	337.5	37,200 *
280	51.4	333.4	35,100 *
285	50.5	329.0	33,000 *
290	49.6	324.5	30,700 *
295	48.7	319.9	28,400 *
300	47.8	315.1	26,300 *
305	46.8	310.2	24,200 *
310	45.8	305.1	22,200 *
315	44.9	299.8	20,200 *
320	43.9	294.3	18,300 *
325	42.8	288.7	16,500 *