

TACOM HQ

Command Results



Alpha TARAC®

Enhanced Max Point-Blank (MPB) Range & User Guide

VI2.1

Cross Compatibility:

- Caliber 5.56, 6, 6.5, .300 BLK and 7.62
- Grains 55-175gr
- BC .243-.697
- Barrel length 7-20"
- Velocity 1000-3300 FPS

Glossary

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Firing Solutions

Cross-compatible across thousands of setups and platforms.

Barrel Lengths

- 7—20"

Zero

- 50m
- 100m

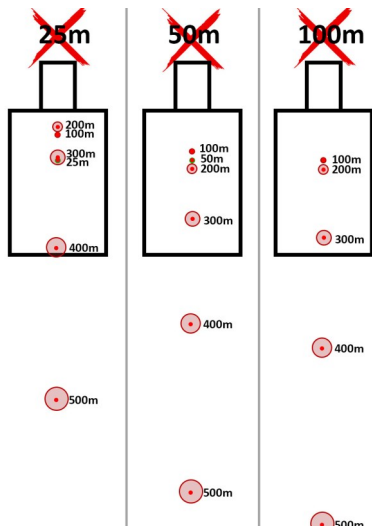
Optics

- Thermals (F)
- Reflex / Red Dot (B)
- Holographic (B)
- LPVO (B)
- ELCAN (B)
- Night Vision (B)
- Iron sights (F of rear)

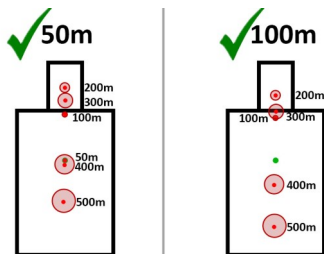
*F and B for Front and Behind Alpha TARAC, respectively.



Industry Zero



MPB Zero¹



¹Eliminates holdover, range estimation, milling, speed drop, lasers, IR emissions, batteries, software, etc.
MPB Zero 500m point of impact assumes aiming top of target.

1.40—1.70" | 50m Zero

Alpha TARAC® Prism	Barrel Length	Target Size		Aim Center® (Meters)		Aim Top TGT (Meters)	
		Simple	Detail				
1.31 MIL 4.5 MOA	10—15"	10—20"	14—18"	0	340	340	380
	16—20"		14—20"	0	370	370	410
1.75 MIL 6.0 MOA	10—15"	20—30"	18—26"	0	380	380	420
	16—20"		20—26"	0	410	410	460
2.18 MIL 7.5 MOA	10—15"		26—32"	0	420	420	460
	16—20"		26—34"	0	460	460	510
2.62 MIL 9.0 MOA	10—15"	30—40"	32—42"	0	460	460	500
	16—20"		34—44"	0	510	510	560

1.40—1.70" | 100m Zero

Alpha TARAC® Prism	Barrel Length	Target Size		Aim Center® (Meters)		Aim Top TGT (Meters)	
		Simple	Detail				
1.31 MIL 4.5 MOA	10—15"	10—20"	12—16"	0	320	320	350
	16—20"		12—18"	0	340	340	380
1.75 MIL 6.0 MOA	10—15"		16—22"	0	350	350	400
	16—20"		18—24"	0	380	380	430
2.18 MIL 7.5 MOA	10—15"	20—30"	22—28"	0	400	400	440
	16—20"		24—30"	0	430	430	480
2.62 MIL 9.0 MOA	10—15"	30—40"	28—36"	0	440	440	490
	16—20"		30—38"	0	480	480	530

¹To convert meters to yards, multiply range by x1.1

²Stow Alpha for +/- 10" targets inside 300m.

1.85—2.15" | 50m Zero

Alpha TARAC® Prism	Barrel Length	Target Size		Aim Center® (Meters)		Aim Top TGT (Meters)	
		Simple	Detail				
1.31 MIL 4.5 MOA	10—15"	10—20"	16—20"	0	360	360	400
	16—20"		16—24"	0	390	390	440
1.75 MIL 6.0 MOA	10—15"	20—30"	20—28"	0	400	400	440
	16—20"		24—30"	0	440	440	490
2.18 MIL 7.5 MOA	10—15"	30—40"	28—36"	0	440	440	470
	16—20"		30—38"	0	490	490	540
2.62 MIL 9.0 MOA	10—15"	40—50"	36—46"	0	470	470	520
	16—20"		38—48"	0	530	530	580

1.85—2.15" | 100m Zero

Alpha TARAC® Prism	Barrel Length	Target Size		Aim Center® (Meters)		Aim Top TGT (Meters)	
		Simple	Detail				
1.31 MIL 4.5 MOA	10—15"	10—20"	12—18"	0	320	320	360
	16—20"		12—18"	0	350	350	390
1.75 MIL 6.0 MOA	10—15"	20—30"	18—22"	0	360	360	410
	16—20"		18—24"	0	390	390	440
2.18 MIL 7.5 MOA	10—15"		22—30"	0	410	410	450
	16—20"		24—32"	0	440	440	490
2.62 MIL 9.0 MOA	10—15"	30—40"	30—36"	0	450	450	490
	16—20"		32—40"	0	490	490	540

¹To convert meters to yards, multiply range by x1.1

²Stow Alpha for +/- 10" targets inside 300m.

2.15—2.35" | 50m Zero

Alpha TARAC® Prism	Barrel Length	Target Size		Aim Center® (Meters)		Aim Top TGT (Meters)	
		Simple	Detail				
1.31 MIL 4.5 MOA	10—15"	10—20"	16—22"	0	370	370	410
	16—20"		18—24"	0	400	400	450
1.75 MIL 6.0 MOA	10—15"	20—30"	22—30"	0	410	410	440
	16—20"		24—32"	0	450	450	500
2.18 MIL 7.5 MOA	10—15"	30—40"	30—38"	0	440	440	480
	16—20"		32—40"	0	500	500	540
2.62 MIL 9.0 MOA	10—15"	40—50"	38—48"	0	480	480	530
	16—20"		40—50"	0	540	540	590

2.15—2.35" | 100m Zero

Alpha TARAC® Prism	Barrel Length	Target Size		Aim Center® (Meters)		Aim Top TGT (Meters)	
		Simple	Detail				
1.31 MIL 4.5 MOA	10—15"	10—20"	12—18"	0	330	330	370
	16—20"		12—18"	0	350	350	390
1.75 MIL 6.0 MOA	10—15"	20—30"	18—24"	0	370	370	410
	16—20"		18—24"	0	400	400	450
2.18 MIL 7.5 MOA	10—15"		24—30"	0	410	410	450
	16—20"		24—32"	0	450	450	490
2.62 MIL 9.0 MOA	10—15"	30—40"	30—38"	0	450	450	490
	16—20"		32—40"	0	490	490	540

¹To convert meters to yards, multiply range by x1.1

²Stow Alpha for +/- 10" targets inside 300m.

Super .300 BLK | 50m Zero

Alpha TARAC® Prism	Barrel Length	Target Size		Aim Center® Yds x1.1		Aim Top TGT Yds x1.1	
		Simple	Detail				
1.31 MIL 4.5 MOA	7–11"	8–12"	8–10"	0	210	220	230
	12–16"		10–12"	0	240	250	260
1.75 MIL 6.0 MOA	7–11"	12–16"	12–14"	0	230	240	250
	12–16"		14–16"	0	270	280	290
2.18 MIL 7.5 MOA	7–11"	16–20"	16–18"	0	260	270	280
	12–16"		18–20"	0	300	310	320
2.62 MIL 9.0 MOA	7–11"	20–26"	20–22"	0	280	290	310
	12–16"		22–26"	0	320	330	350

Sub .300 BLK

Alpha TARAC® Prism	Barrel Length	Target Size		Aim Center® Yds x1.1		Aim Top TGT Yds x1.1	
		Simple	Detail				
1.31 MIL 4.5 MOA	7–11"	6"	6"	0	100	100	110
	12–16"		6"	0	100	100	110
1.75 MIL 6.0 MOA	7–11"	6–8"	6"	0	110	110	120
	12–16"		8"	0	120	120	130
2.18 MIL 7.5 MOA	7–11"	8–10"	8"	0	120	120	130
	12–16"		10"	0	130	130	140
2.62 MIL 9.0 MOA	7–11"	10–12"	10"	0	130	130	140
	12–16"		12"	0	140	140	150

*To convert meters to yards, multiply range by x1.1

MPBR Calculation

Step 1 — Input cartridge and rig information.

Ballistic Coefficient [Links] (0.010 to 2.000) [0.5] [?] <input type="text" value="0.243"/> G1 ↕	Bullet Weight (5.0 to 15000.0 gr) [220.0] [?] <input type="text" value="55"/> gr ↕
Caliber (0.100 to 2.000 in) [0.308] [?] <input type="text" value="5.56"/> mm ↕	
Muzzle Velocity (500.0 to 4800.0 ft/s) [3000.0] [?] <input type="text" value="3000.0"/> ft/s ↕	Distance to Chronograph (0.0 to 100.0 yd) <input type="text" value="10.0"/> ft ↕
Sight Height (-100.00 to 100.00 in) [1.5] [?] <input type="text" value="2.5"/> in ↕	Sight Offset (-100.00 to 100.00 in) [0.0] [?] <input type="text" value="0.0"/> in ↕
Zero Height (-100.00 to 100.00 in) [0.0] [?] <input type="text" value="0.0"/> in ↕	Zero Offset (-100.00 to 100.00 in) [0.0] [?] <input type="text" value="0.0"/> in ↕
Windage (-300.000 to 300.000 MOA) [0.0] [?] <input type="text" value="0.0"/> MOA ↕	Elevation (-300.000 to 300.000 MOA) [0.0] [?] <input type="text" value="0.0"/> MOA ↕
Line Of Sight Angle (-90.0 to 90.0 deg) [0.0] [?] <input type="text" value="0.0"/>	Can't Angle (-90.0 to 90.0 deg) [0.0] [?] <input type="text" value="0.0"/>
Wind Speed (0.0 to 100.0 mph) [10.0] [?] <input type="text" value="10.0"/> mph ↕	Wind Angle (0.0 to 360.0 deg) [90.0] [?] <input type="text" value="90.0"/>
Target Speed (0.0 to 100.0 mph) [10.0] [?] <input type="text" value="10.0"/> mph ↕	Target Angle (-90.0 to 90.0 deg) [90.0] [?] <input type="text" value="90.0"/>
Target Height (2.0 to 100.0 in) [12.0] [?] <input type="text" value="12.0"/> in ↕	
Minimum Range (0 to 3999) [0] [?] <input type="text" value="0"/>	Maximum Range (1 to 4000) [1000] [?] <input type="text" value="600"/>
Range Increment (1 to 4000) [100] [?] <input type="text" value="2"/>	Zero Range (1 to 4000) [100] [?] <input type="text" value="50"/>

MPBR Calculation

Step 2 — Find MIL/MOA drop and its equivalent range. Here, 7.5 MOA at 392m is selected.

320	-16.3	-4.4	18.6	5.1	1783.0	1.597	388.2	0.454	79.9	21.8
322	-16.7	-4.5	18.8	5.1	1776.5	1.591	385.3	0.457	80.5	21.8
324	-17.1	-4.6	19.1	5.1	1770.0	1.585	382.5	0.461	81.2	21.9
326	-17.5	-4.7	19.4	5.2	1763.6	1.580	379.8	0.465	81.8	21.9
328	-17.9	-4.8	19.6	5.2	1757.1	1.574	377.0	0.469	82.5	22.0
330	-18.3	-4.8	19.9	5.3	1750.7	1.568	374.2	0.472	83.1	22.0
332	-18.7	-4.9	20.2	5.3	1744.3	1.562	371.5	0.476	83.8	22.0
334	-19.1	-5.0	20.5	5.3	1737.9	1.557	368.8	0.480	84.5	22.1
336	-19.5	-5.1	20.7	5.4	1731.5	1.551	366.1	0.484	85.1	22.1
338	-20.0	-5.2	21.0	5.4	1725.2	1.545	363.4	0.487	85.8	22.2
340	-20.4	-5.2	21.3	5.5	1718.8	1.540	360.7	0.491	86.5	22.2
342	-20.8	-5.3	21.6	5.5	1712.5	1.534	358.1	0.495	87.1	22.2
344	-21.3	-5.4	21.9	5.6	1706.2	1.528	355.5	0.499	87.8	22.3
346	-21.7	-5.5	22.2	5.6	1699.9	1.523	352.9	0.503	88.5	22.3
348	-22.2	-5.6	22.5	5.6	1693.7	1.517	350.3	0.507	89.2	22.4
350	-22.7	-5.7	22.8	5.7	1687.4	1.511	347.7	0.511	89.9	22.4
352	-23.1	-5.7	23.1	5.7	1681.2	1.506	345.1	0.514	90.5	22.5
354	-23.6	-5.8	23.4	5.8	1675.0	1.500	342.6	0.518	91.2	22.5
356	-24.1	-5.9	23.7	5.8	1668.8	1.495	340.0	0.522	91.9	22.5
358	-24.6	-6.0	24.0	5.9	1662.6	1.489	337.5	0.526	92.6	22.6
360	-25.1	-6.1	24.3	5.9	1656.5	1.484	335.0	0.530	93.3	22.6
362	-25.6	-6.2	24.6	5.9	1650.3	1.478	332.6	0.534	94.0	22.7
364	-26.1	-6.3	25.0	6.0	1644.2	1.473	330.1	0.538	94.7	22.7
366	-26.6	-6.3	25.3	6.0	1638.1	1.467	327.7	0.542	95.4	22.8
368	-27.1	-6.4	25.6	6.1	1632.1	1.462	325.2	0.546	96.1	22.8
370	-27.6	-6.5	25.9	6.1	1626.0	1.456	322.8	0.550	96.8	22.9
372	-28.2	-6.6	26.3	6.2	1620.0	1.451	320.4	0.554	97.5	22.9
374	-28.7	-6.7	26.6	6.2	1614.0	1.446	318.1	0.558	98.3	22.9
376	-29.2	-6.8	26.9	6.3	1608.0	1.440	315.7	0.562	99.0	23.0
378	-29.8	-6.9	27.3	6.3	1602.0	1.435	313.4	0.566	99.7	23.0
380	-30.4	-7.0	27.6	6.3	1596.0	1.430	311.0	0.571	100.4	23.1
382	-30.9	-7.1	27.9	6.4	1590.1	1.424	308.7	0.575	101.1	23.1
384	-31.5	-7.2	28.3	6.4	1584.2	1.419	306.4	0.579	101.9	23.2
386	-32.1	-7.3	28.6	6.5	1578.3	1.414	304.2	0.583	102.6	23.2
388	-32.6	-7.3	29.0	6.5	1572.4	1.408	301.9	0.587	103.3	23.3
390	-33.2	-7.4	29.3	6.5	1566.6	1.403	299.7	0.591	104.1	23.3
392	-33.8	-7.5	29.7	6.6	1560.7	1.398	297.4	0.595	104.8	23.3
394	-34.4	-7.6	30.0	6.7	1554.9	1.393	295.2	0.600	105.5	23.4
396	-35.0	-7.7	30.4	6.7	1549.1	1.388	293.0	0.604	106.3	23.4
398	-35.7	-7.8	30.8	6.8	1543.4	1.382	290.9	0.608	107.0	23.5
400	-36.3	-7.9	31.1	6.8	1537.6	1.377	288.7	0.612	107.8	23.5
402	-36.9	-8.0	31.5	6.8	1531.9	1.372	286.5	0.617	108.5	23.6
404	-37.5	-8.1	31.9	6.9	1526.2	1.367	284.4	0.621	109.3	23.6

MPBR Calculation

Step 3 — Rerun ballistics, but change the rifle zero to the value found in Step 2. Here, '392' is inputted.

Ballistic Coefficient [Links] (0.010 to 2.000) [0.5] [?] 0.243 <input type="text"/> G1 <input type="button" value="v"/>	Bullet Weight (5.0 to 15000.0 gr) [220.0] [?] 55 <input type="text"/> gr <input type="button" value="v"/>
Caliber (0.100 to 2.000 in) [0.308] [?] 5.56 <input type="text"/> mm <input type="button" value="v"/>	
Muzzle Velocity (500.0 to 4800.0 ft/s) [3000.0] [?] 3000.0 <input type="text"/> ft/s <input type="button" value="v"/>	Distance to Chronograph (0.0 to 100.0 yd) 10.0 <input type="text"/> ft <input type="button" value="v"/>
Sight Height (-100.00 to 100.00 in) [1.5] [?] 2.5 <input type="text"/> in <input type="button" value="v"/>	Sight Offset (-100.00 to 100.00 in) [0.0] [?] 0.0 <input type="text"/> in <input type="button" value="v"/>
Zero Height (-100.00 to 100.00 in) [0.0] [?] 0.0 <input type="text"/> in <input type="button" value="v"/>	Zero Offset (-100.00 to 100.00 in) [0.0] [?] 0.0 <input type="text"/> in <input type="button" value="v"/>
Windage (-300.000 to 300.000 MOA) [0.0] [?] 0.0 <input type="text"/> MOA <input type="button" value="v"/>	Elevation (-300.000 to 300.000 MOA) [0.0] [?] 0.0 <input type="text"/> MOA <input type="button" value="v"/>
Line Of Sight Angle (-90.0 to 90.0 deg) [0.0] [?] 0.0 <input type="text"/>	Can't Angle (-90.0 to 90.0 deg) [0.0] [?] 0.0 <input type="text"/>
Wind Speed (0.0 to 100.0 mph) [10.0] [?] 10.0 <input type="text"/> mph <input type="button" value="v"/>	Wind Angle (0.0 to 360.0 deg) [90.0] [?] 90.0 <input type="text"/>
Target Speed (0.0 to 100.0 mph) [10.0] [?] 10.0 <input type="text"/> mph <input type="button" value="v"/>	Target Angle (-90.0 to 90.0 deg) [90.0] [?] 90.0 <input type="text"/>
Target Height (2.0 to 100.0 in) [12.0] [?] 12.0 <input type="text"/> in <input type="button" value="v"/>	
Minimum Range (0 to 3999) [0] [?] 0 <input type="text"/>	Maximum Range (1 to 4000) [1000] [?] 600 <input type="text"/>
Range Increment (1 to 4000) [100] [?] 2 <input type="text"/>	Zero Range (1 to 4000) [100] [?] 392 <input type="text"/>

MPBR Calculation

Step 4 — Find the largest +value in the bullet drop column. This is your max ORD. Here, it is 16.1”.

184	15.4	7.3	5.5	2.6	2260.8	2.025	624.1	0.231	40.7	19.3
186	15.4	7.3	5.6	2.6	2253.3	2.018	619.9	0.234	41.2	19.4
188	15.5	7.2	5.7	2.7	2245.8	2.012	615.8	0.237	41.8	19.4
190	15.6	7.2	5.9	2.7	2238.3	2.005	611.7	0.240	42.3	19.4
192	15.6	7.1	6.0	2.7	2230.8	1.998	607.7	0.243	42.8	19.5
194	15.7	7.1	6.1	2.8	2223.4	1.991	603.6	0.246	43.3	19.5
196	15.7	7.0	6.3	2.8	2215.9	1.985	599.6	0.249	43.8	19.5
198	15.8	7.0	6.4	2.8	2208.5	1.978	595.6	0.252	44.4	19.6
200	15.8	6.9	6.6	2.9	2201.1	1.972	591.6	0.255	44.9	19.6
202	15.9	6.9	6.7	2.9	2193.7	1.965	587.6	0.258	45.4	19.6
204	15.9	6.8	6.8	2.9	2186.3	1.958	583.7	0.261	45.9	19.7
206	15.9	6.8	7.0	3.0	2178.9	1.952	579.7	0.264	46.5	19.7
208	16.0	6.7	7.1	3.0	2171.6	1.945	575.8	0.267	47.0	19.7
210	16.0	6.7	7.3	3.0	2164.2	1.939	571.9	0.270	47.5	19.8
212	16.0	6.6	7.4	3.1	2156.9	1.932	568.1	0.273	48.1	19.8
214	16.1	6.6	7.6	3.1	2149.6	1.925	564.2	0.276	48.6	19.8
216	16.1	6.5	7.7	3.1	2142.3	1.919	560.4	0.279	49.1	19.9
218	16.1	6.4	7.9	3.2	2135.0	1.912	556.6	0.282	49.7	19.9
220	16.1	6.4	8.1	3.2	2127.7	1.906	552.8	0.285	50.2	19.9
222	16.1	6.3	8.2	3.2	2120.5	1.899	549.0	0.288	50.8	20.0
224	16.1	6.3	8.4	3.3	2113.2	1.893	545.3	0.291	51.3	20.0
226	16.1	6.2	8.5	3.3	2106.0	1.886	541.6	0.295	51.8	20.0
228	16.1	6.2	8.7	3.3	2098.8	1.880	537.9	0.298	52.4	20.1
230	16.1	6.1	8.9	3.4	2091.6	1.873	534.2	0.301	53.0	20.1
232	16.1	6.1	9.0	3.4	2084.4	1.867	530.5	0.304	53.5	20.1
234	16.1	6.0	9.2	3.4	2077.2	1.861	526.9	0.307	54.1	20.2
236	16.0	5.9	9.4	3.5	2070.1	1.854	523.2	0.310	54.6	20.2
238	16.0	5.9	9.6	3.5	2062.9	1.848	519.6	0.313	55.2	20.2
240	16.0	5.8	9.7	3.5	2055.8	1.841	516.0	0.317	55.7	20.3
242	16.0	5.8	9.9	3.6	2048.7	1.835	512.5	0.320	56.3	20.3
244	15.9	5.7	10.1	3.6	2041.6	1.829	508.9	0.323	56.9	20.3
246	15.9	5.6	10.3	3.7	2034.5	1.822	505.4	0.326	57.4	20.4
248	15.8	5.6	10.5	3.7	2027.4	1.816	501.9	0.330	58.0	20.4
250	15.8	5.5	10.7	3.7	2020.4	1.810	498.4	0.333	58.6	20.5
252	15.7	5.5	10.9	3.8	2013.3	1.803	494.9	0.336	59.1	20.5
254	15.7	5.4	11.0	3.8	2006.3	1.797	491.5	0.339	59.7	20.5
256	15.6	5.3	11.2	3.8	1999.3	1.791	488.1	0.343	60.3	20.6
258	15.6	5.3	11.4	3.9	1992.3	1.784	484.7	0.346	60.9	20.6
260	15.5	5.2	11.6	3.9	1985.3	1.778	481.3	0.349	61.4	20.6

MPBR Calculation

Step 5 — Find Step 4's equivalent -value and -2x value.

-Value = Max distance aiming center target

-2x Value = Max distance favoring top of target

428	-8.8	-1.8	36.6	7.5	1459.5	1.307	260.1	0.674	118.6	24.2
430	-9.4	-1.9	37.0	7.5	1454.1	1.302	258.2	0.678	119.4	24.2
432	-10.0	-2.0	37.4	7.6	1448.7	1.298	256.3	0.683	120.2	24.3
434	-10.6	-2.1	37.8	7.6	1443.4	1.293	254.4	0.687	121.0	24.3
436	-11.1	-2.2	38.2	7.7	1438.0	1.288	252.5	0.692	121.8	24.4
438	-11.7	-2.3	38.6	7.7	1432.7	1.283	250.6	0.696	122.6	24.4
440	-12.3	-2.4	39.1	7.8	1427.4	1.279	248.8	0.701	123.4	24.5
442	-13.0	-2.6	39.5	7.8	1422.2	1.274	247.0	0.706	124.2	24.5
444	-13.6	-2.7	39.9	7.9	1416.9	1.269	245.2	0.710	125.0	24.6
446	-14.2	-2.8	40.4	7.9	1411.7	1.264	243.4	0.715	125.8	24.6
448	-14.8	-2.9	40.8	8.0	1406.5	1.260	241.6	0.720	126.6	24.7
450	-15.5	-3.0	41.2	8.0	1401.4	1.255	239.8	0.724	127.5	24.7
452	-16.1	-3.1	41.7	8.1	1396.3	1.251	238.0	0.729	128.3	24.8
454	-16.8	-3.2	42.1	8.1	1391.1	1.246	236.3	0.734	129.1	24.8
456	-17.5	-3.3	42.6	8.2	1386.1	1.241	234.6	0.738	129.9	24.9
458	-18.1	-3.5	43.0	8.2	1381.0	1.237	232.9	0.743	130.8	24.9
460	-18.8	-3.6	43.5	8.3	1376.0	1.232	231.2	0.748	131.6	25.0
462	-19.5	-3.7	43.9	8.3	1371.0	1.228	229.5	0.753	132.5	25.0
464	-20.2	-3.8	44.4	8.4	1366.0	1.224	227.8	0.757	133.3	25.1
466	-20.9	-3.9	44.9	8.4	1361.0	1.219	226.2	0.762	134.2	25.1
468	-21.7	-4.0	45.3	8.5	1356.1	1.215	224.6	0.767	135.0	25.2
470	-22.4	-4.2	45.8	8.5	1351.2	1.210	222.9	0.772	135.9	25.2
472	-23.1	-4.3	46.3	8.6	1346.4	1.206	221.3	0.777	136.7	25.3
474	-23.9	-4.4	46.7	8.6	1341.5	1.202	219.7	0.782	137.6	25.3
476	-24.6	-4.5	47.2	8.7	1336.7	1.197	218.2	0.787	138.4	25.4
478	-25.4	-4.6	47.7	8.7	1331.9	1.193	216.6	0.791	139.3	25.4
480	-26.2	-4.8	48.2	8.8	1327.2	1.189	215.1	0.796	140.2	25.5
482	-27.0	-4.9	48.7	8.8	1322.4	1.184	213.5	0.801	141.0	25.6
484	-27.8	-5.0	49.2	8.9	1317.7	1.180	212.0	0.806	141.9	25.6
486	-28.6	-5.1	49.7	8.9	1313.1	1.176	210.5	0.811	142.8	25.7
488	-29.4	-5.3	50.2	9.0	1308.4	1.172	209.0	0.816	143.7	25.7
490	-30.2	-5.4	50.7	9.0	1303.8	1.168	207.6	0.821	144.6	25.8
492	-31.1	-5.5	51.2	9.1	1299.2	1.164	206.1	0.826	145.4	25.8
494	-31.9	-5.6	51.7	9.1	1294.7	1.160	204.7	0.831	146.3	25.9
496	-32.8	-5.8	52.2	9.2	1290.2	1.156	203.2	0.837	147.2	25.9
498	-33.6	-5.9	52.7	9.2	1285.7	1.152	201.8	0.842	148.1	26.0

Speed Drop Calculation

Turns range into a precision MIL hold for POA POI using the Alpha TARAC.

*Requires an inverted -prism

Range	Hold (B)	DOPE ¹ in MIL (C)	Difference (C - B)
300	3.0	1.0	-2.0
350	3.5	1.4	-2.1
400	4.0	1.7	-2.3*
450	4.5	2.2	-2.3*
500	5.0	2.6	-2.4
550	5.5	3.0	-2.5
600	6.0	3.5	-2.5
650	6.5	4.0	-2.5
700	7.0	4.5	-2.5
750	7.5	5.0	-2.5
800	8.0	5.6	-2.4

¹Calculated with a ballistic computer.

*An inverted -prism set at -2.3 MIL allows a POA POI using range as the hold from 350 to 800 with +/- 0.2 MIL of error. Larger or smaller values may be selected for more range OR accuracy, respectively.

100

200

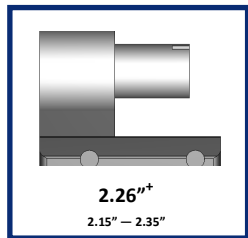
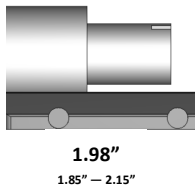
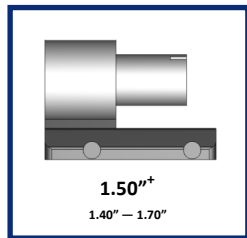
300

400

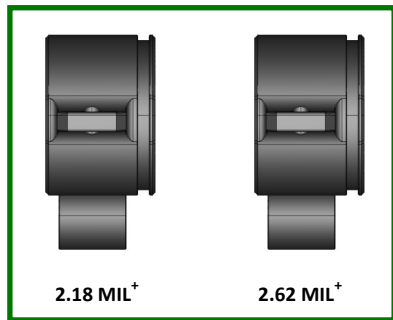
Components



Component 1 / Base¹ — \$125



Component 2 / Prism¹ — \$275



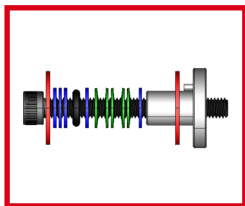
[†] Recommended

¹ Prisms for the 1.50" and prisms and bases for 1.98"/2.26" are cross-compatible, respectively.

Components



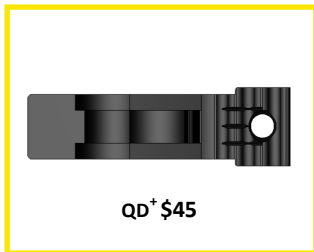
Component 3 / Friction Assembly — \$35



Component 4 / ADM Mount



Bolt-on \$30



QD+ \$45

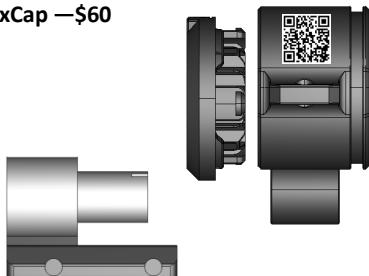
* Recommended

*Components 1-4 are required to assemble one (1) complete Alpha TARAC. May be purchased separately.

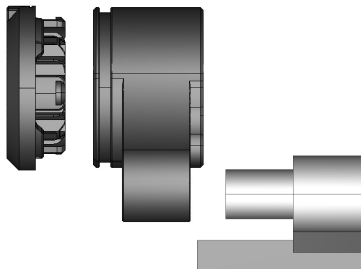
Accessories



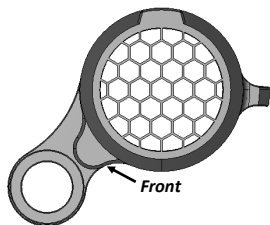
HexCap —\$60



Run the Alpha TARAC Frontwards



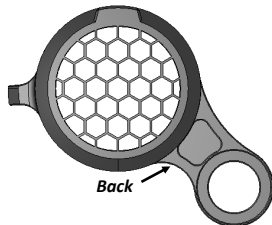
Run the Alpha TARAC Backwards



Ambidextrous

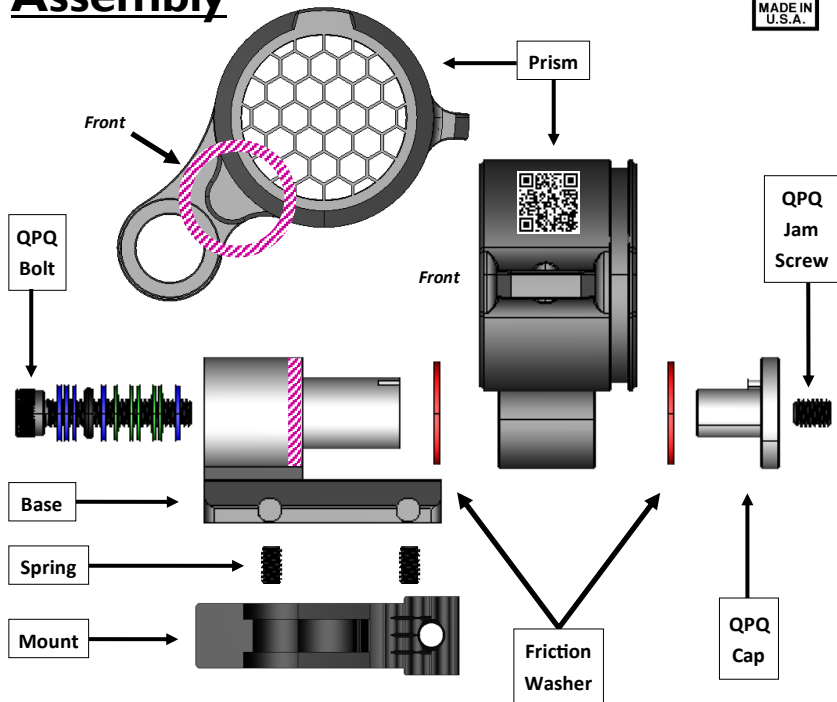


HexCap






Assembly

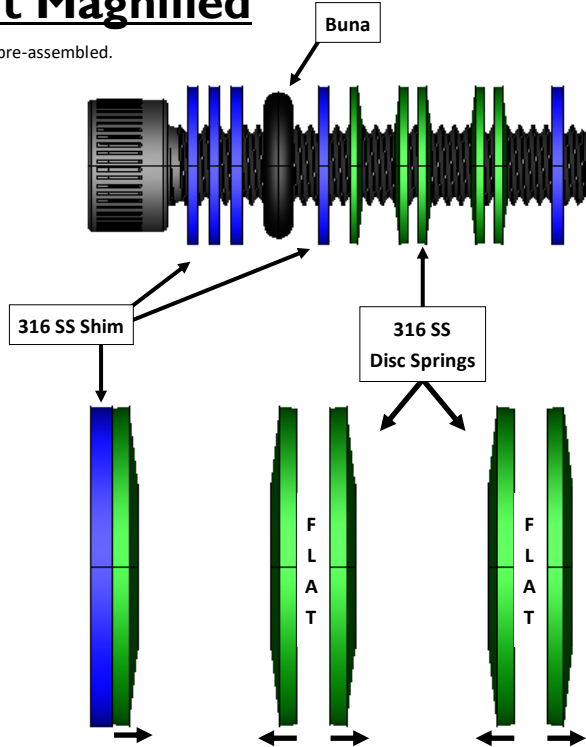


*Tighten bolt, then jam screw to 10-20in/lb.

 Mechanical hard stop and index.

Bolt Magnified

Shipped pre-assembled.



Attachment

- The ADM GI Bolt uses a 3/8" wrench found in most standard tool boxes and features holes to attach safety wire for extra security. This bolt will provide ample clamping force at 30-40 in/lbs but can be torqued up to but not exceeding 60 in/lbs.



Proper tension for ADM QD Lever?

- Set tight enough to secure the mount to the rail without any movement, but not so tight that you have to pry the throw lever open with a tool to remove the optic from the firearm. This is set by adjusting the tension in with the adjustment nut.



QD Adjustment

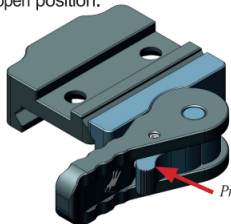


AMERICAN
DEFENSE MANUFACTURING®

Operating Instructions for QD AutoLock™ System

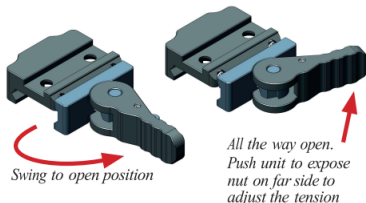
No tools required for AutoLock adjustment.

- 1 Before attempting to install your ADM mount, please take the time to ensure that your firearm is **unloaded** and the muzzle is pointed in a safe direction.
- 2 Please repeat number 1.
- 3 Look over your ADM mount and become familiar with its components.
- 4 Unlock the mount. To do this, depress the lock button and swing the lever 180° to the open position.



Depress the lock button, shown here.

Press in.



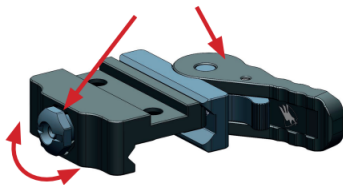
- 5 Install the assembly onto the rail and move the lever to the locked position.
- 6 Check the tension to close. The correct amount of tension is the maximum amount you apply with one hand to move the lever to a closed position. How much tension you prefer is dependent on your own judgement and personal preference. Please remember, this system has a lot more surface contact than the competition, so you may not need to push the lever as hard to achieve the same result.



- 7 To adjust the tension, move the lever to the open position and push the lever towards the base. This will make the adjustment nut protrude on the opposite side of the base. With the nut protruding, it may be turned to the right or the left to make the necessary adjustment. We recommend tightening one to two flats per time, then testing the tension. Since there are eight flats on the octagonal nut, this process may take a few tries to get it where you want it. You will need NO tools for this step.

- 8 While utilizing a mount with vertical rings, please note to tighten the bottom screws first, then the top screws. There should be a slight gap between where the top of the rings meet when tightened properly. **The torque rating for the ring screws is 20-25 in/lbs. max.** For optics mounts, such as the AD-T1 series and other red dot mounts, there isn't a torque rating. Simply snug the screws down a little more than finger tight. Over tightening of the small screws on optics such as the Aimpoint T1, risks stripping the threads and ruining the optic. **The only threadlocker that American Defense recommends is VC-3 Vibra-Tite Threadmate, this is the red/orange packet included with the ADM mount.** The use of any other threadlocker may cause damage to the mount and void the warranty.

When lever is open, nut will protrude



Turn nut to adjust tension

Regarding the AD-SM series mounts:

DO NOT attempt to adjust or remove the bolt that holds the optic ring to the mount base on the AD-SM-01/02/03 Series Mounts. Doing so **will void the warranty**. The bolt is permanently threadlocked into the ring. Attempting to adjust the bolt will cause it to break, damaging the mount.

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Notes

