

Mil-dot Reticle

Technical Sheet

The Mil-dot Reticle is designed specifically to enhance a shooter's long range accuracy and ranging capabilities under a variety of field conditions.

A "Mil" is the abbreviation for Milliradian. A "Mil" is an angular measurement that is equal to 1/6400th of a circle, which is equivalent to approx 1 Yard wide at 1,000 Yards distance. 1 MIL is equal to 3.6 inches at 100 Yards.

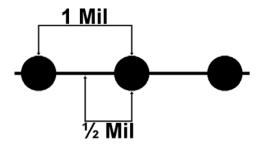
The Mil-dot reticle is divided into 5 Mil-dot increments (Picture: A).

Any known size target (height or width) can be ranged using a mathematical formula.

TARGET size in Yards X 1,000 Size of the Object in Mil = Target's Range in Yards

1 Yard is 36 inches (3 feet). Divide your Target's Size in inches by 36 inches to get your Target size in Yards.

The distance from the Center of a Dot to the Center of the next Dot is 1 Mil. The distance from the Center of a Dot to the middle of the line between Dots is ½ Mil.

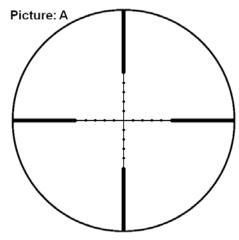


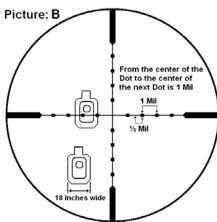
For Example: the silhouette target is 18 inches wide (Picture: B). The target's width is 11/2 Mil using the scope's Mil-dot reticle over the target. Using the ranging formula above, we get the follow results:

TARGET'S width = 18" inches wide = 0.500 Yard

$$\frac{.500 \text{ Yard X 1,000}}{1\frac{1}{2} \text{ Mil}} = 333 \text{ Yards}$$

MIL-DOT TABLE FOR TARGETS IN INCHES											
INCHES		8	10	12	14	16	18	20	22	24	
YAF	YARDS		0.278	0.333	0.389	0.444	0.500	0.556	0.611	0.667	
MIL	1	222	278	333	389	444	500	556	611	667	
MIL	1.5	148	185	222	259	296	333	371	407	445	
MIL	2	111	139	167	195	222	250	278	306	334	
MIL	2.5	89	111	133	156	178	200	222	244	267	
MIL	3	74	93	111	130	148	167	185	204	222	
MIL	3.5	63	79	95	111	127	143	159	175	191	
MIL	4	56	70	83	97	111	125	139	153	167	
MIL	4.5	49	62	74	86	99	111	124	136	148	
MIL	5	44	56	67	78	89	100	111	122	133	





This picture depicts a **close-up** of the center portion of the reticle for more detail.

MIL-DOT TABLE FOR TARGETS IN FEET										
FEET	3	4	5	6	7					
YARDS	1.000	1.333	1.667	2.000	2.333					
MIL 1	1000	1333	1667	2000	2333					
MIL 1.5	667	889	1111	1333	1555					
MIL 2	500	667	834	1000	1167					
MIL 2.5	400	533	667	800	933					
MIL 3	333	444	556	667	778					
MIL 3.5	286	381	476	571	667					
MIL 4	250	333	417	500	583					
MIL 4.5	222	296	370	444	518					
MIL 5	200	267	333	400	467					