

# CrossOver™ Marking System



**Vertical CrossOver Marker**



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A system of proven SpanGuard™ markers warns low flying pilots and drone operators of higher power lines crossing their flight path.

Utilities are increasingly using low flying helicopters and drones to inspect their power lines for potential problems. With the pilot or operator concentrating on looking down at the power lines, there's a greater chance of colliding with higher lines that cross above the lines they're following.

Signs have been used to alert pilots, but they're not always noticed, especially if seen from an angle. Signs must also be mounted high on the poles, near or above energized lines, which raises safety concerns for linemen mounting the signs.

## A Distinctive Warning Pattern

The CrossOver Marking System uses yellow and orange spherical SpanGuard markers in a specific sequence to alert low flying craft of upcoming crossing lines.

- For wooden poles, monopoles, or lattice towers, a 20" yellow marker is mounted directly to the pole (either at or near the top) at least two towers ahead of the upcoming crossover, telling a pilot to "Start up now!"
- A 20" orange marker is mounted to the pole ahead of the crossover, telling a pilot to "Be up now!"
- Depending on pole spacing, the markers may need to be mounted on earlier poles to give sufficient time for the pilot to respond. Also, multiple yellow markers may be desirable ahead of the orange marker.

## Additional Features & Benefits

- SpanGuard markers are the industry standard for marking power lines, so they are familiar to pilots.
- The large spherical markers can be seen from all directions and are much more noticeable than signs.
- The markers are brilliant in color and retain their color for many years.

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# CrossOver Marking System

continued from front



**Horizontal CrossOver Marker**

- Horizontal CrossOver markers can be mounted below live conductors, allowing linemen to easily install them with less risk.
- SpanGuard markers are low cost and do not require maintenance. Made of durable ABS plastic with a special UV laminate to ensure color retention and a long life, many SpanGuard markers have been in continuous service for over 60 years.

## Installation

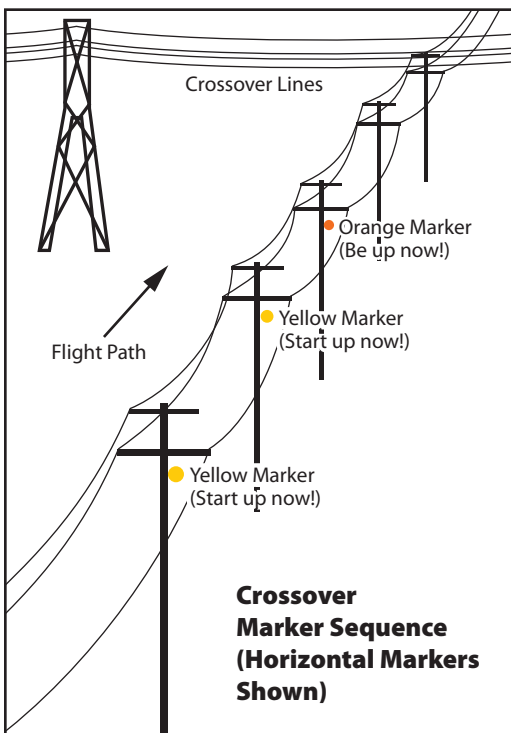
The CrossOver Marking System includes installation hardware to securely mount markers to poles as needed:

- **Vertical markers** come with a 90-degree formed aluminum mounting plate (6.5" high x 6" wide on each side). For wooden poles, the plate can be screwed or bolted into place, or attached to rods through the pole. For fiberglass, composite, or concrete poles, stainless steel banding can be used to strap the mounting plate into place.

A 1.5 inch diameter fiberglass rod is anchored to the mounting plate and extends up to a secure attachment inside the marker. Total height from the bracket to the top of marker is 36 inches. Custom lengths of the fiberglass mounting rod can be ordered.

- **Horizontal markers** come with a threaded rod for mounting on a wooden pole. The rod penetrates the pole. Nuts, bolts, washers, and protective thread cover are provided. For lattice towers, the marker can be mounted to the lattice support columns with U-bolts (not provided).

The total weight of each marker assembly is 8 lbs.



## Ordering Information

Part No.	Description
A20-O-PM	20" diameter, orange, horizontal
A20-Y-PM	20" diameter, yellow, horizontal
V20-O-PM	20" diameter, orange, vertical
V20-Y-PM	20" diameter, yellow, vertical